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ABSTRACT

The curriculum guide presents career development concepts of orientation and exploration for the areas of English, health, math, science, and social studies at the seventh through tenth grade level. For each concept in each area, the following items are presented: developmental objective, behavioral objective, related subject areas, learning activities, and resources and materials. The supplementary volume consists of lesson plans presented in the same format as the main document. The lesson plans were developed and tried in the classroom during a workshop for teachers. The workshop was intended to provide teachers with an opportunity to explore career education concepts and to gain understanding in how the concepts might apply to their own classroom situations. (AG)

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Lorain City Schools
CAREER EDUCATION
LORAIN, OHIO

orientation exploration

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Secondary Curriculum Guide

CE603915

CAREER EDUCATION

ORIENTATION

and

EXPLORATION

CURRICULUM GUIDE

(7-10)

LORAIN CITY SCHOOLS

LORAIN, OHIO

SEPTEMBER 1973

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TAELE OF CONTENTS

		PAGE
FOREWORD		I
COMMITTEES		III
CAREER DEVELOPMENT CONCEPTS SEQUENCE		IV
ENGLISH	(BROWN)	1
HEALTH	(GOLD)	33
	Level 7	40
	Level 8	47
	Level 9	52
MATH	(GREEN)	66
	Level 7	67
	Level 8	74
	Level 9	81
	Level 10	91
	Level 11	95
	Level 12	99
SCIENCE	(PINK)	101
SOCIAL STUDIES	(BLUE)	124
	Social Studies	125
	United States History	135
	World History	140

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FOREWORD

The following curriculum guide has been compiled for the purpose of assisting teachers at the secondary level with the integration of Career Education concepts into the classroom.

The Career Education movement presumes that the traditional subjects taught in our Junior and Senior high schools have relevance to each student's future career choice. While some teachers have in the past attempted to demonstrate the relevance of their subject matter to careers, there has been no organized approach.

This curriculum guide should provide teachers with ample suggestions for enriching current classroom activities with career education materials. In addition, the guide provides for a sequential development of Career Education concepts according to various subject areas. This will have the result of avoiding duplication of activities and make the program more interesting to students.

It is suggested that teachers select a concept and develop it by keeping in mind at all times the developmental and behavioral objectives. This process may be followed for each of the concepts listed.

Teachers should not feel limited to those activities listed in the guide. Other activities that may seem appropriate may be substituted or added.

This curriculum guide is the result of many hours of work on the part of committee members. In addition, many staff members at Hawthorne Junior High School, Masson Junior High School, and Admiral King High School have provided helpful input. The assistance of these persons is greatly appreciated.

The implementation of this curriculum material will depend, to a large degree, upon the individual initiative of each staff member. Teachers may consult with the building coordinator concerning any difficulties regarding the implementation of this curriculum material into the classroom.

Each staff member will receive a copy of the curriculum guide. As you use the material it would be helpful if you would make notations in your copy with a view toward a year-end revision.

The committee's efforts have been directed toward the development of materials that will enhance the awareness of each student regarding the many aspects of career information and career choice. In the final analysis, each student will benefit from the efforts of the staff to make career education a viable part of the total school program.

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CAREER DEVELOPMENT CONCEPTS SEQUENCE

1. An understanding and acceptance of self is important throughout life.
2. Persons need to be recognized as having dignity and worth.
3. Occupations exist for a purpose.
4. There is a wide variety of careers which may be classified in several ways.
5. Work means different things to different people.
6. Education and work are interrelated.
7. Individuals differ in their interests, abilities, attitudes and values.
8. Occupational supply and demand has an impact on career planning.
9. Job specialization creates interdependency.
10. Environment and individual potential interact to influence career development.
11. Occupations and life styles are interrelated.
12. Individuals can learn to perform adequately in a variety of occupations.
13. Career development requires a continuous and sequential series of choices.
14. Various groups and institutions influence the nature and structure of work.
15. Individuals are responsible for their career planning.
16. Job characteristics and individuals must be flexible in a changing society.

INTRODUCTION

For years, the relevancy of much of the English curriculum has been questioned not only by countless students but by educators themselves.

"Why must I learn these?" For what will this equip me?" These questions and similar ones have been asked repeatedly. For lack of better answers, teachers have responded with, "This will make you a better person." This will broaden your perspectives."

However, after twelve years of formal English education designed to develop a better person and broaden his perspectives, the student, alas, has not been adequately prepared for what becomes his ultimate need, employment. Consequently, after "high school" and sometimes even when in college, many experience uncertainties about their occupational choices. Later, some experience job dissatisfaction.

Situations such as these, have promoted concerned educators to seek methods to lessen the disparity between the English curriculum and employment. The result of this concern has been the incorporation of Career Education into the English curriculum through the preparation of the following material. Though these materials may be used as lesson plans, they are primarily guides to be expanded by the individual English teacher, to meet his needs.

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Concept: An understanding and acceptance of self is important throughout life.

Developmental Objective: To develop an awareness of the personal attributes necessary to obtain and maintain a job.

Behavioral Objective: Through discussion the students will demonstrate a knowledge of personality modifications that may be required in the pursuit of a career.

Related Subject Areas	Learning Activities	Resources and Materials
English	Discuss in class those items which the students believe are most critical for success on the job. Students will ask for interviews with store managers and personnel directors. The questions asked will relate to the items most responsibile for the loss of jobs. Information from interviews will be brought back to class and organized. Students may discuss those items most commonly mentioned by personnel directors or managers of businesses that, as students, they would find most difficult and the easiest to accept if success on the job is to be assured. Each student will be asked to place in writing his behavior characteristics which he believes are the most positive and the most negative regarding his future job adjustment.	Resource people (personnel Managers or Manager of Businesses) Film: "Your Job: You and Your Boss." (BC-499)

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Concept: An understanding and acceptance of self is important throughout life.

Developmental Objective: To develop an understanding of the relationship between personal attitudes and employability.

Behavioral Objective: The student will be able to critically analyze the attitudes observed during a role playing situation.

Related Subject Area	Learning Activities	Resources and Materials
English	Taking jobs of newspaper advertisement, have students prepare for and conduct interviews for same - (4 or 5 students per job).	Etiquette Book
	Role play - one student prospective employee, one student employer. Other students criticize according to these considerations: Dress Time Attitude Deportment	Pen Note pad S. S. number
	Record comments by various employees concerning criteria for hiring related to aforementioned considerations.	
	Each student relates what he has done by way of preparation before he actually faces employer (bathed, used deodorant, coiffured hair. cleaned shoes, nails, etc.). After this, he goes in for actual interview. In order that students will have some reason to give adverse criticism, teacher may tell some interviewers beforehand to chew gum, fidget, ramble in conversing, scratch, etc. At the end of each set of interviews, class will vote for who gets the job. However, criticism will have been given after each individual interview.	Film: "Personal Health For Girls" AC-635 LCCC

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Concept: Persons need to be recognized as having dignity and worth.

Developmental Objective: To introduce students to state and federal laws regarding adolescents.

Behavioral Objectives: The students will be able to compare Lorain employment for youth with labor laws and cite examples of possible discrimination.

Related Subject Areas	Learning Activities	Resources and Materials
English	Write letters to HEW for information about job discrimination. Write to the State Bureau of Employment for Ohio's Child Labor Laws. As an assignment each student will interview one employer and find out the starting wage, hours and responsibilities. Discussion of subtle on-the-job discrimination. Read and discuss stories and articles demonstrating discrimination because of race, sex, age, religion, or nationality. Discussion of women and jobs, Women's Lib. Have groups produce skits to show past and present discrimination in race, sex, etc. (from above paragraph).	Booklet - Ohio State Bureau of Employment Speaker from State Employment Office Business woman to explain her position

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Concept: Occupations exist for a purpose.

Developmental Objective: To develop an awareness of the various career opportunities within the armed services.

Behavioral Objective: The student will be able to identify and discuss various professional considerations within the military.

Related Subject Areas	Learning Activities	Resources and Materials
English	The student will collect as much material as is available regarding a career in the armed services. Interview representatives of all military branches. Write to main offices of all military branches for additional information. Write to all military academies, including the merchant marine, for information regarding commissioned officers. Write to several selected colleges or universities regarding their R.O.T.C. programs. Invite military representatives to speak to the entire class. Military personnel other than recruiters could be invited to provide a different perspective. Have each student investigate one military vocation in depth.	Literature regarding life as a professional serviceman or servicewoman. Speakers qualified to discuss military life.

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Concept: Occupations exist for a purpose

Developmental Objective: To understand the basic concepts of production, distribution, and consumption and their economic relationships.

Behavioral Objective: Students will list duties and occupations of banking and show their economic relationships.

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Related Subject Areas	Learning Activities	Resources and Materials
English	Divide students into groups according to size required for playing game, Monopoly. All transactions in which students pay out money will be recorded by teacher (individual's name, amount, and to whom it was paid). At end of game, teacher produces withdrawal, depository, and money order slips to be filled out by students. In remaining time, visiting bank teller can explain some of his duties related to the forms the students filled out. Take a field trip to a bank. View film. Look up vocabulary words and write definitions. currency withdraw deposit defunct estate promissory debtor creditor monopoly transaction	"Trouble Shooter" Series Book #7 Forms from bank Bank teller Film: "Competition and Big Business" B-92 LCCC Field trip Film: "Money Talks" A-321 LCCC

Concept: There is a wide variety of careers which may be classified in several ways.

Developmental Objective: To acquaint the student with the career information available through the classified ads of a newspaper.

Behavioral Objective: By analyzing the "want ads" section, students will demonstrate a knowledge that there is a wide and increasing variety of occupations.

Related Subject Areas	Learning Activities	Resources and Materials
English	Review all aspects of the classified ads, (abbreviations, headings, cost, and procedures for submitting ads to the newspaper).	Lorain Journal
	Examine methods of ad classification. Indicate ways to respond to the ads, (telephone call, resume, or apply in person).	Resource people (Employment Offices, Telephone Offices, Postal Employee).
	Telephone courtesy and telephone interview procedures will be reviewed by the teacher and, if possible, by a resource person supplied by the telephone company. Related activity: Career information provided regarding careers with the telephone company.	Career Kit
	Students will select a newspaper help wanted ad in which the prospective employee is requested to respond by telephone.	Sample job applications
	If the student qualifies for the job, he may work towards actual acceptance by the employer.	Text with business letter forms
	With a prop telephone or without, students will be interviewed by the teacher, by the resource person, or by another student for the	Prop telephone if possible

(con't)

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Concept: There is a wide variety of careers which may be classified in several ways.

Developmental Objective: To acquaint the student with the career information available through the classifed ads of a newspaper.

Behavioral Objective: By analyzing the "want ads" section, students will demonstrate a knowledge that there is a wide and increasing variety of occupations.

Related Subject Areas	Learning Activities	Resources and Materials
English	"telephone response" job he selected from the newspaper. Have each student first write a brief description of another student and see if others can identify student from the description. Students criticize description. Then reverse procedure, having each student submit a description of himself and see if others can identify him. Having selected various job advertisements, have each student revise his description of himself to include information pertinent to specific job. Teacher questions how one can be sure of requirements of specific job without knowledge of same. Students research jobs from pamphlets. Have students write business letters applying for positions advertised in newspaper. Enclosed in the letter will be self-resumes. (Later, these will be extended into autobiographies.) (con't)	Film: "Newspaper Story" (B-395) LCCC Newspaper Job Pamphlets People engaged in jobs selected from newspaper Postmaster

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Concept: There is a wide variety of careers which may be classified in several ways.

Developmental Objective: To acquaint the student with the career information available through the classified ads of a newspaper.

Behavioral Objective: By analyzing the "want ads" section, students will demonstrate a knowledge that there is a wide and increasing variety of occupations.

Related Subject Areas	Learning Activities	Resources and Materials
English	Hear resource people engaged in jobs selected from newspaper. Check student resumes.	
	Ask Postmaster to discuss postal positions.	
	Discuss: "What is an interview?" Students will discuss procedures to follow when having an interview, courtesies, questions to be asked, etc.	Local newspaper
	Students will make a list of general and specific questions that the applicant might ask.	Career Kits
	A resource person from the State Employment Office or Youth Opportunity Corps could discuss procedure to follow for interviews and how to make arrangements for an interview.	Resource people
	Students will choose from the classified ads those which require a response by a personal interview. By using other sources, the students will become familiar with those particular occupations.	Job applications

(con't)

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Concept: There is a wide variety of careers which may be classified in several ways.

Developmental Objective: To acquaint the student with the career information available through the classified ads of a newspaper.

Behavioral Objective: By analyzing the "want ads" section, students will demonstrate a knowledge that there is a wide and increasing variety of occupations.

Related Subject Areas	Learning Activities	Resources and Materials
English	Role playing - Have a resource person from the State Employment Office or Youth Opportunity Corps come and be an interviewer and the students portray the applicants. If no resource people are available, students will play the part of the interviewer, also. Discuss what an application is, the parts of one, references and who to have for references, and how to fill out an application. Then the students will fill out an application. Help the student differentiate among ads placed by private employment agencies, by individuals, and by public agencies.	

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Concept: Work means different things for different people.

Developmental Objective: To develop a realization that people work for different reasons and receive different rewards.

Behavioral Objective: Students, through the OVIS, will be able to recognize their occupational needs and relate the various reasons and rewards associated with possible OVIS recommended careers.

Related Subject Areas	Learning Activites	Resources and Materials
English	Discuss white collar and blue collar jobs. Have discussions motivated by a variety of speakers. Professional Semi-professional Union Skilled Unskilled Self-employed Interview some speakers. Write a paper comparing and contrasting attitudes of people interviewed toward jobs.	National State and Local career catalogues. Film: "Your Job: Good Work Habits."

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Concept: Education and work are interrelated.

Developmental Objective: To develop an awareness of the various types of business and governmental forms necessary throughout life.

Behavioral Objective: The student will be able to accurately complete various sample forms that are necessary for all careers.

Related Subject Areas	Learning Activites	Resources and Materials
English	Discuss the distribution of one's money. A. Social Security 1. What is social security? 2. Why have a social security number and card? 3. Does everyone have a Social Security number and card? 4. Fill out an application for a social security card and number. B. Government-Federal, State, and Local. 1. Fill out W-2 form. a. What is its purpose? C. Savings and Checking Accounts. 1. What is the difference between these? 2. Procedure for putting money in savings account. 3. Procedure for opening a. checking account. b. using a check book. c. filling out a check. 4. Resource person from local bank to speak on procedures. a. Bring in careers in a bank. 1) What are job opportunties in a bank? 2) Education necessary. (con't)	Troubleshooter Series (Book 7) Sample forms form Internal Revenue Service Resource People A. Bank B. I R S Sample checks Film: "The Story Of A Check" B-431 LCCC

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Concept: Education and work are interrelated.

Developmental Objective: To develop an awareness of the various types of business and governmental forms necessary throughout life.

Behavioral Objective: The student will be able to accurately complete various sample forms that are necessary for all careers.

Related Subject Areas	Learning Activities	Resources and Materials
English	D. Fill out an income tax form 1. Resource person form I R S. a. Careers in I R S.	

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Concept: Education and work are interrelated.

Developmental Objective: To develop a realization of the value of general education as a necessary foundation for future specialized training.

Behavioral Objective: The student will differentiate between proper and improper grammar usage in a role playing situation.

Related Subject Areas	Learning Activities	Resources and Materials
English	While working with any phase of grammar, (verb tenses, subject-verb agreement) emphasis should be made on the importance of speaking and writing while on the job. Students will discuss the problems that could arise from improper grammer on the job. Have students bring in examples of improper grammer from newspapers, magazines, radio, television, speakers one has heard, and if possible, from actual incidents while on the job (if working). Do these incorrect usages cause any problems? Give tests on grammar.	English textbook Films on correct grammar Tests Newspaper

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Concept: Individuals differ in their interests, abilities, attitudes and values.

Developmental Objective: To understand the impact of other people's feelings and values and their relationship to ones' own.

Behavioral Objective: In a role playing situation, students will be able to resolve a conflict through the use of consideration and tact.

Related Subject Areas	Learning Activities	Resources and Materials
Speech I	Select an occupational setting and research the occupational areas. In group "role playing" session, assume the occupational setting. Interviewing people involved in different occupational levels. Request information from personnel departments through writing or by direct request. Set up a "real life" occupational problem and have students reach a realistic solution to the problem in a group discussion: A. Employer-employee confrontation. B. Strike situation, picketing. C. Approaching an employer for a promotion. D. Launching advertising campaign. E. How to boost sales? F. Increasing employee morale. G. Bring employees into team situations.	Career Education Resource Center Books on group discussion and action activities Current publications Mass media i.e. T.V., radio, motion picutres

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Concept: Occupational supply and demand has an impact on career planning.

Developmental Objective: To develop an understanding that production, distribution and consumption relate to jobs and the economic structure.

Behavioral Objective: Through the creation and advertising of a product, students will demonstrate a knowledge of the importance of the economy in planning a career.

Related Subject Areas	Learning Activities	Resources and Materials
English	Introduce the student to selected advertising approaches through the mass media. A. Masculine - Feminine appeals. B. Bandwagon appeals. C. Appeal to experts. D. Appeal to great names. E. Gimmick appeals. (Alka-Seltzer commercials) F. Association appeals. (drive a Cadillac and associate with the upper-classes)	Advertising salesmen for local magazines and newspapers
	Have the students cut examples of the above techniques from magazines and newspapers or explain how the concepts were used in radio or television commercials.	Magazines and newspapers
	Assign all students the same product to advertise using one or a combination of several advertising appeals.	
	Have the students create a product and develop a program for presenting this product to the public. Investigate: Door to door distribution of samples, handbills, etc.	
	Take a field trip to a radio and/or a television station.	Field trip

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Concept: Job specialization creates interdependency.

Developmental Objective: To develop the awareness that business, industrial, or institutional organizations are comprised of workers who perform tasks which are interrelated.

Behavioral Objective: Students will be able to identify and discuss the interrelationship of department store retailing careers.

Related Subject Areas	Learning Activities	Resources and Materials
English	Expose students to selected sales departments and personnel: (furniture, sporting goods, toys, cosmetics and clothes are possibilities).	Film: "Consumer Education: Installment Buying" BC-404 LCCC
	1. Paperwork and general responsibilities of managers, assistant managers, and general sales people within selected departments may be considered.	
	2. Brief review of stocking procedures and cash register functions may be taken on a departmental basis.	
	Expose students to the procedures relating to catalogue sales personnel.	Catalogues
	1. Have students select items for purchase through catalogue sales department.	
	2. When given catalogue sales blanks, the student will be able to insert all appropriate information correctly.	
	3. A qualified resource person will discuss the common difficulties relating to the catalogue sales department.	Resource speaker

(con't)

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Concept: Job specialization creates interdependency.

Developmental Objective: To develop the awareness that business, industrial, or institutional organizations are comprised of workers who perform tasks which are interrelated.

Behavioral Objective: Students will be able to identify and discuss the interrelationship of department store retailing careers.

Related Subject Areas	Learning Activities	Resources and Materials
English	Expose students to the responsibilities of a switchboard operator in a large retail establishment. 1. Students will examine household telephone costs and billing procedures. 2. Comparison of household telephone costs to those of a large retail establishment will be made. 3. Explanation of switchboard responsibilities to be reviewed by store operator or knowledgeable person.	A friendly department store
	Expose students to bookkeeping and accounting departments of retail establishment. 1. Students will examine typical department store billing procedures. 2. Billing forms and vocabulary to be considered after students complete a common charge account application.	Resource people from a friendly department store

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(con't)

Concept: Job specialization creates interdependency.

Developmental Objective: To develop the awareness that business, industrial, or institutional organizations are comprised of workers who perform tasks which are interrelated.

Behavioral Objective: Students will be able to identify and discuss the interrelationship of department store retailing careers.

Related Subject Areas	Learning Activities	Resources and Materials
English	3. General explanation of interest charges and late payment fees will outline customers' responsibilities. Explanations of accounting and bookkeeping functions of a department store will be reviewed by a qualified person.	
	Expose students to security personnel and policies of the retail establishment.	Forms common to various departments of the retail establishment
	1. Discuss with students available literature regarding annual cost to retailers of shoplifting.	Security resource person
	2. Qualified resource person will review security practices of retail establishment.	Film: "The Policeman and His Job" B-290 LCCC
	Expose students to food worker employment.	Field trip
	1. Review of employees cafeteria and customers' food service within the retail establishment will be conducted.	
	2. Qualified resource person will conduct a tour of the food facilities.	

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Concept: Environment and individual potential interact to influence career development.

Developmental Objective: To recognize and accept the influences of many factors on career development.

Behavioral Objective: The student will be able to write a critique stating positive and negative traits and attitudes regarding career selections.

Related Subject Areas	Learning Activities	Resources and Materials
English	Discuss in class those English skills which students believe are most critical on the job. A. Ability to communicate ideas in writing. B. Ability to communicate in speaking. C. Ability to follow directions. D. Ability to fill out forms: 1. Application forms. 2. Grievance forms. 3. Requisition forms. E. Ability to read. 1. Job descriptions. 2. Manuals Write a critique stating negative and positive traits and attitudes regarding job selection.	Resource people from Personnel offices of industry and business in the area (U.S. Steel, American Ship, Ford, Penny's Sears, McGarvey's)

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Concept: Occupations and life styles are interrelated.

Developmental Objective: To develop an understanding that occupational choice affects an individual's life style.

Behavioral Objective: Given a list of life-style characteristics, the student will be able to associate expected careers with the life-style.

Related Subject Areas	Learning Activities	Resources and Materials
English	List significant quotations revealing some facet of character from poetry, short story, play, novel, (whatever is being studied). Have students list corresponding adjectives which best describes each character. List incidents and activities (occupations included here) which help to reveal character. Note and discuss relationship between character and employment - why author may have chosen particular employment for character, ie. Dickens - clerk, Robinson - "Miniver Cheevy" - unemployed. Pose question: Are occupations and life styles interrelated? Investigate all occupations of selection being studied. Create a character utilizing techniques employed by author of current selection - incorporate employment or lack of. Have students investigate occupations, beginning with A-1 and A-2 (1st letter of alphabet, accountant, auditor, 2 different students investigating)until all students have assignments. Each student will put information on a file card. Each student will put information about himself on another file card. During class	Literature Text Job booklets

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Concept: Occupations and life styles are interrelated.

Developmental Objective: To develop an understanding that occupational choice affects an individual's life style.

Behavioral Objective: Given a list of life-style characteristics, the student will be able to associate expected careers with the life-style.

Related Subject Areas	Learning Activities	Resources and Materials
English	period, students can match occupations with individuals "a la computor". Teacher may have a guidance counselor, a psychologist, or a psychiatrist assist and discuss related ideas.	Guidance Counselor Psychologist Psychiatrist

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Concept: Individuals can learn to perform adequately in a variety of occupations.

Developmental Objective: To develop the awareness that individuals are able to develop potentials which can be expressed in a variety of occupations.

Behavioral Objective: Students will be able to describe and provide detailed information about several occupations.

Related Subject Areas	Learning Activities	Resources and Materials
English	From the students' previously selected "job clusters", the students will select five to ten careers for further research. The students should be able to discuss the following items relating to each of his selections: A. Job description. B. Advantages of the selected career. C. Disadvantages of the selected career. D. Education and/or training required to be qualified for the individual jobs. E. Beginning salary and average salary after ten years on the same job. F. Addresses from which students may seek additional information.	Library and career guidance materials relating to the selected jobs.

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Concept: Career development requires a continued and sequential series of choices.

Developmental Objective: To develop an awareness of the many factors which may have relevance for one's career decisions.

Behavioral Objective: Given a role playing situation, the students will dramatize the factors important to them in obtaining a position.

Related Subject Areas	Learning Activities	Resources and Materials
English	Preparation before going for an interview- "What to look for when considering a particular job."	Resource people (Employer or personnel director)
	Discuss these questions: 1. What does one look for when applying for a job. 2. What is important to an individual? 3. Is the pay the only thing to consider when applying for a job?	Film: "Your Job: Applying For It" BC-541
	4. Why are these important? A. hospitalization B. health & dental insurance C. pension pay D. vacation pay E. overtime F. working conditions G. life insurance H. tuition payment plan I. chance to move up J. other	Film: "Your Job: Finding The Right One" B-544
	Have an employer or personnel director of an area company speak on benefits and the importance of providing fringe benefits to the employees.	Resource speaker

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Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: To introduce the changing conditions in the work world that are affected by groups, methods, and institutions.

Behavioral Objective: Through the production of the newspaper, students will demonstrate a knowledge of the duties required in journalistic careers.

Related Subject Areas	Learning Activities	Resources and Materials
English	During the study of a newspaper the students will write their own newspaper. They will first look at the jobs that are necessary in putting together a newspaper. Compare various methods involved in the production of a small newspaper with that of a larger one. Discuss reasons for differences. (labor unions - technology, etc.) Discuss and analyze positions of: A. Editor B. Reporters 1. sports 2. women's pages 3. local news 4. state, national and world news C. Typesetter D. Proofreader E. Artist F. Cartoonist G. Writers for ads What do each of these jobs involve? Students will choose a job and will perform the necessary duties in putting together the newspaper.	BEST COPY AVAILABLE Local newspaper Resource person from newspaper Library Newspapers Ohio Newspaper Association Film: "Careers in the Newspaper"

Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: To expose students to the effect of pressure groups on writing for public comsumption (papers, T.V., etc.)

Behavioral Objective: Students will demonstrate an awareness of changes brought about by such organizations as: N.A.A.C.P., Italian Defamation League, Mafia, Brown Berets, Anti-Jewish Defamation League, etc. through class discussions.

Related Subject Areas	Learning Activities	Resources and Materials
English	Explore how various groups and institutions have influenced changes in what is read and seen by Americans. Discuss the effect on writing for all public consumption of the following: Newspapers Editorials Cartoons Magazine articles T.V. programs Discuss censorship in connection with group pressure.	A poem, a story, and a T.V. program

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Concept: Individuals are responsible for their career planning.

Developmental Objective: To develop an understanding of the relationship between high school courses and activities within the world of work.

Behavioral Objective: Given a list of careers the student will be able to relate the importance of language to each career.

Related Subject Areas	Learning Activities	Resources and Materials
English	Have students bring in magazines and newspaper advertisements. Show them on the opaque projector. Also have class watch T.V. commercials. Discuss why certain words were used in the various ads. Take one word such as "beauty" and see how many words students can give that mean the same thing. Examples: pulchritude, comeliness, Do the same with other words. These words will be the vocabulary words for that lesson. Teacher poses question as to how important vocabulary might be to a person in the field of advertising. Assign 2 students the task of investigating field of advertising. Teacher asks in what other occupations might vocabulary be important. Have certain students investigate those occupations mentioned and prepare a list of 15 words which are used by people in those fields. The lists will be a vocabulary for subsequent vocabulary days. (Teacher will have made a list of occupations which would include law, clerical, newspaper reporting, etc.) (con't)	Magazines Newspapers and T.V. Individual employed in any mentioned fields

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Concept: Individuals are responsible for their career planning.

Developmental Objective: To develop an understanding of the relationship between high school courses and activities within the world of work.

Behavioral Objective: Given a list of careers the student will be able to relate the importance of language to each career.

Related Subject Areas	Learning Activities	Resources and Materials
English	Students who have investigated various occupations will either supply a resource person to discuss field, or will orally present information himself.	

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Concept: Individuals are responsible for their career planning.

Developmental Objective: Students will be made aware of the responsibilities they need as future employees.

Behavioral Objective: Given a list of attitudes and behaviors, the student will be able to identify those that are important in order to become a successful employee.

Related Subject Areas	Learning Activities	Resources and Materials
English	Role playing: "Relative has left you $50,000.00 and you are going to begin your own business". One student is the employer. Several students act as prospective employees. Note: The employer is looking for a certain kind of employee. What are the responsibilities that students have towards school that will prepare them to be good employees? A. Attendance. 1. Why attend school regulary? 2. Why do some students play hooky? 3. Composition "Why people run away from a problem." B. Punctuality. C. Rules and regulations. 1. What would society be like without rules? D. Relations with teachers. 1. Take a close look at teachers. 2. Composition - "What is your idea of a good teacher?" E. Attitude. F. Industriousness. 1. Description of a lazy person. (con't)	Vocational English

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Concept: Individuals are responsible for their career planning.

Developmental Objective: Students will be made aware of the responsibilities they need as future employees.

Behavioral Objective: Given a list of attitudes and behaviors, the student will be able to identify those that are important in order to become a successful employee.

Related Subject Area	Learning Activities	Resources and Materials
English	G. Safety - causes and preventions. 1. What causes accidents? 2. How does one prevent accidents? H. Staying in school. I. Relations with others. 1. Why is it important to be able to get along with others?	

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Concept: Job characteristics and individuals must be flexible in a changing society.

Developmental Objective: To develop a broader knowledge that jobs are modified, eliminated or created by technological and societal changes.

Behavioral Objective: Through a panel discussion, the student will relate information about various changes that have occurred or will be occurring in the work world.

Related Subject Areas	Learning Activities	Resources and Materials
English	Students will bring to class trade journals and professional magazines that are available from various occupations. A. Dentist B. Doctor C. Teacher D. Steelworker E. Autoworker F. Cosmetologist G. Meteorologist H. Lawyer I. Law enforcer J. Businessmen K. Contractors L. Chemists M. Food industrialists N. Printers O. Ship builders P. Air traffic controller What information is available in each? Discuss with students the importance of trade journals. What are disadvantages if a worker does not read his trade journal? Discuss the various changes that have occurred or will be occurring in these occupations.	Trade journals

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Concept: Job characteristics and individuals must be flexible in a changing society.

Developmental Objective: To develop a broader knowledge that jobs are modified, eliminated or created by technological and societal changes.

Behavioral Objective: Through a panel discussion, the student will relate information about various changes that have occurred or will be occurring in the work world.

Related Subject Areas	Learning Activities	Resources and Materials
English	Have students to relate what he has learned about a career of interest from a trade journal.	

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INTRODUCTION

The preservation of health is the responsibility of everyone. The school should educate students to assume the responsibility for supporting and improving public health.

Health Careers can provide opportunities for students with varied interests in medicine, engineering, mathematics, nursing, science, music, art, etc. to find meaningful expression in an occupation in the health care field. The health care field is the nation's third largest industry. Each occupation plays an important and necessary role in the maintenance of good health care.

It is our desire through career education to permit students to explore the many occupational possibilities in the health fields.

Career Education will familarize students with a wide range of health information and health occupations. It is also our aim to inform students of their responsibility for maintaining good health habits and to realize that health information and advice comes from many sources, both scientific and unscientific, including one's family and friends.

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GENERAL OBJECTIVES

1. To develop a positive concept of self.

2. To develop an awareness and acceptance that work is a way of life.

3. To expose the student to the wide variety of health occupations.

4. To help the student recognize his interests, abilities and weaknesses.

5. To develop an awareness of how careers in the health field require varying amounts of education and training.

6. To help students interested in the health field relate their interest to course offerings.

7. To develop an awareness of and respect for all types of work and workers.

8. To understand that people work for various reasons: financial, personal needs, social needs, and self satisfaction.

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ABBREVIATIONS

1.	L. C. C. C.	Lorain Community Supplemental Educational Center
2.	D. O. T.	Dictionary of Occupational Titles
3.	O. O. H.	Occupational Outlook Handbook
4.	O. E. I. S.	Ohio Employment Information Series
5.	L. C. H.	Lorain Community Hospital
6.	O. V. I. S.	Ohio Vocational Interest Survey
7.	A. M. A.	American Medical Association
8.	S. V. E.	Society for Visual Education
9.	U. S. O. E.	United States Office of Education
10.	C. M. C.	Career Materials Center
11.	A. K. H. S.	Admiral King High School

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Lorain Community Hospital
3700 Kolbe Road
Lorain Ohio 44053
282-9121

Ohio State Employment Service
707 Broadway
Lorain, Ohio 44052
244-2228

St. Joseph Hospital
205 West 20th Street
Lorain, Ohio 44052
245-6851

United States Bureau of Statistics
Washington, DC

Greater Lorain Chamber of Commerce
204 5th Street
Lorain, Ohio 44052
244-4150

Lorain County Welfare Department
1801 Elyria Avenue
Lorain, Ohio 44052
244-4150

City Of Lorain
Board of Health
205 West 14th Street
Lorain, Ohio 44052
245-6836

Lorain County Community College
1005 N. Abbe Road
Elyria, Ohio
233-7244

CAREER CURRICULUM KITS

TITLE	LOCATION
Chronicle Career File	A. K. H. S.
College View Deck	A. K. H. S.
Health Careers Kit - Largo	A. K. H. S.
Occupational View Deck	A. K. H. S.
Health Education - A Conceptual Approach	Lorain Curriculum Library

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FILMS

	TITLE	SOURCE
	"Acting With Maturity"	L. C. C. C.
	"A Time Of Change"	L. C. C. C.
*	"Code Blue"	Modern Talking Picture Service
*	"Corps Profound"	Association Sterling
*	"Horizons Unlimited"	A. M. A.
	"In A Medical Laboratory"	L. C. C. C.
*	"People Working For People"	Association Sterling
	"Plain White Envelope"	L. C. C. C.
	"Story Of Dr. Lister"	L. C. C. C.
	"The Beholder"	L. C. C. C.
*	"The Involved Ones"	Association Sterling
*	"To Seek, To Teach, To Heal"	Association Sterling

* Free Loan Films

FILMSTRIPS

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TITLE	SOURCE
Counseling In Vocational Education	Society For Visual Education (A. K. H. S.)

ADDRESSES OF FILM SUPPLIERS

American Medical Association
535 North Dearborn Street
Chicago, Illinois 60611

Association Sterling Films
324 Deleware Avenue
Oakmont, Pennsylvania 15139

Modern Talking Picture Service
160 E. Grand Street
Chicago, Illinois 60611

PAMPHLETS

"Can I Get The Job?"

"Careers In The Meical Services Of The Armed Forces"

"Health Hero Biographies"

"Medical Library Careers"

"Planning Your Career"

"Where To Get Health Career Information"

BIBLIOGRAPHY

Career Education Resource Guide

Dictionary Of Occupational Titles

Guide To College Majors

Health Careers Educational Guide

Horizons Unlimited

Ohio Employment Information Series

Occupational Outlook Handbook

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ARTICLES

Freese, Arthur, "A Survey Of Health Careers That Need Filling In American Medicine", 07 Chronicle Career File, A. K. H. S.

Concept: An understanding and acceptance of self is important throughout life.

Developmental Objective: To develop an awareness of some personal qualifications necessary for success in a health career.

Behavioral Objective: Following a visit by a hospital personnel director, the students will be able to outline the qualifications for a health career in which they are interested.

Related Subject Areas	Learning Activities	Resources and Materials
Health 7	Have a discussion session with students to focus on values such as responsibility, honesty, work, promptness, dependability, cooperation and the respect for the uniqueness of each individual. Also to respect the human rights of each individual.	Film: "Acting With Maturity" (LCCC) Film: "A Plain White Envelope" (LCCC)
	Have each student write a protrait of himself in which he includes a brief physical description, discusses his interests, describes the person he most admires, and what he hopes to do after school.	Film: "The Involved Ones" (Association Sterling)
	Have each student survey three health occupations that interest him and report on the personal qualifications necessary for the occupation.	Occupational Outlook Handbook D. O. T. "Careers Health Kit"
	Have a resource person in charge of hospital personnel discuss with students "Personal Qualifications For Entering The Health Professions"	Personnel Director form local hospital
	Have students write a resume listing his strengths and weaknesses.	Career Education Resource Guide "Too Many Chiefs" page 189

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Behavioral Objective: Following a visit by a hospital personnel director, the students will be able to outline the qualifications for a health career in which they are interested.

Related Subject Areas	Learning Activities	Resources and Materials
Health 7	Have students research a number of health occupations to find out the following information. A. Functions B. Duties C. Working Conditions D. Personal Qualifications E. Educational Requirements F. Educational Opportunities G. Employment Outlook	Employment Information Series Career Education Resource Guide

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Concept: Persons need to be recognized as having dignity and worth.

Developmental Objective: To develop an awareness of how each person's work contributes to the welfare of society and that each individual possesses a distinct set of abilities.

Behavioral Objective: Given a list of abilities, the student will check off those that he feels he possesses and compare them to a number of health occupations.

Related Subject Areas	Learning Activites	Resources and Materials
Health 7	Project: Study the organization of a hospital. Analyze how each person's job contributes to the efficiency of the operation. List a range of abilities that persons may possess. Ask students to do role playing of a client and employment counselor. The client expresses a desire to follow a particular vocation and the counselor asks questions about temperament, interests and abilities of client in relation to that vocation.	Public Relations Director of Local hospital Film: "Code Blue" A. M. A. Career Exploration Resource Guide Community Careers Fair Career Education Resource Guide pg. 77 "Abilities & Ambitions" Career Education Resource Guide pg. 163

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Concept: Occupations exists for a purpose.

Developmental Objective: To develop an awareness that occupations exist to produce goods or service. Health occupations are service occupations.

Behavioral Objective: After a trip to a local hospital, the students will write reports on three occupations they observed and the purposes these occupations serve.

Related Subject Areas	Learning Activites	Resources and Materials
Health 7	Discuss personal experiences of students related to health services they or their families have used recently. List the health occupations involved. Define these occupations: A. General Practitioner B. Specialist C. Pediatrician D. Opthamologist E. Orthopedic F. Podiatrist G. Nurse H. X-Ray Technician I. Lab Technician J. Physical Therapist K. Others Field trip to local hospital to observe people at work in the various departments.	Representative from the local health department to explain local health services Film: "To Seek, To Teach, To Heal" (Association) Occupational Outlook Handbook Dictionary of Occupational Titles Bulletin board display on health occupations

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Concept: There is a wide variety of careers which may be classified in several different ways.

Devlopmental Objective: To develop an awareness that workers in the health fields give service to humanity.

Behavioral Objective: Using the D. O. T. or the O.Oll, students will list 10 occupations that deal with patient care and 10 occupations that function in support of patient care.

Related Subject Areas	Learning Activities	Resources and Materials
Health 7	Discuss with students the various ways that health careers can be classified. A. Education B. Skill and training C. People directly related to people care. Example: Nurse Physician Orderly D. Those that operate in support of patient care. Example: X-Ray technician Laboratory Assistant Office Staff Maintenance Have students make posters on health careers in which theyare interested. Have students survey one occupation dealing with patient care and one dealing with support.	D. O. T. Resource speaker

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Concept: Individuals can find self expression in the work they do.

Developmental Objective: To develop an awareness of how one's personality affects the choice of a career.

Behavioral Objective: Using the Temperament Check List and the Occupational View Deck, the student will discover and then survey those occupations that suit his temperament and other variables.

Related Subject Areas	Learning Activites	Resources and Materials
Health 7	Demonstrate the Occupational View Deck. Have students do temperament check list.	
	Make a list of health occupations students would be interested in knowing more about. Have students look up pertinent information concerning the occupations they choose.	Dictionary of Occupational Titles
	Have students organize a slogan or poster contest on the theme, "It Pays To Plan Your High School Career".	Art teacher
	Invite a staff member of the Ohio State Employment Office to talk about the minimum skills and personality characteristics that employers require.	Speaker: Representative from the Ohio State Employment Service

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Concept: Education and work are interrelated.

Developmental Objective: To develop an awareness that careers in the health fields require varying amounts of education and training.

Behavioral Objective: After listing a number of careers, the student will be able to plan his high school course work as though a committment was being made to a career in a health field.

Related Subject Area	Learning Activities	Resources and Materials
Health 7	Have students plan courses for a future as a nurse, doctor, medical secretary, x-ray technician or laboratory assistant. Have students construct a bulletin board showing the different types of jobs in the health field. Have students interview a nurse, doctor, medical secretary, x-ray technician or laboratory assistant to find out what subjects they took to prepare for their occupations. They may also discuss their likes or dislikes about their jobs.	

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Concept: An understanding and acceptance of self is important throughout life.

Developmental Objective: To develop an awareness that each personality is unique and to indicate to students how they can improve their personalities.

Behavioral Objective: Given a list of personality traits students will identify those areas in which they are strong or weak.

Related Subject Areas	Learning Activities	Resources and Materials
Health 8	Discuss the psychological needs of people and how work can satisfy these needs. Have each student choose a health occupation and write a personality sketch of the kind of person who would be suited for the occupation. Define the following careers: A. Psychologist B. Psychiatrist C. Psychometrist Have a psychologist talk with students concerning personality development and how people can change. Have students discuss personality types and temperaments. List desirable vs. undesirable personality traits. Have students discuss ways that people can change.	<u>Health Careers of Ohio</u> "Career Health Kit" <u>Occupational Outlook Handbook</u> D. O. T. Film: "Horizons Unlimited" (Modern Talking Picture Service) Practicing psychologist or school psychologist Film: "A Time Of Change" L. C. C. C. "Occupational View Deck"

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Concept: Persons need to be recognized as having dignity and worth.

Developmental Objective: To develop an understanding of, and respect for, persons who are different.

Behavioral Objective: Given a list of situations, dealing with conflicts, the student will tell how the conflict might have been avoided or how the problem might be solved.

Related Subject Areas	Learning Activities	Resources and Materials
Health 8	Have students list factors that may cause conflict situations that might arise between persons. A. lack of communication B. mis-understandings C. personality differences D. jealousy	"Constructive Confrontation" Career Education Resource Guide page 160 Film: "The Beholder" (LCCC)
	Have a rap session with students to focus on values such as work, thrift and honesty involved in specific occupations. A. doctor B. nurse C. medical secretary D. laboratory technician E. x-ray technician	Film: "Acting With Maturity" (LCCC)
	Write an essay comparing the problems of teenagers in understanding older persons and those of parents in trying to understand teenagers.	
	Explain the use of the Career Kits to students and provide some for students to work with in class.	Health Career Kits

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Concept: Occupations exist for a purpose.

Developmental Objective: To develop an awareness that health occupations contribute to the welfare of the community, the country and the world.

Behavioral Objective: After listing current national, world and community health problems, the students will be able to discuss ways in which these problems may be overcome.

Related Subject Areas	Learning Activites	Resources and Materials
Health 8	Have students list and define as many health occupations as possible. Have students interview someone in a health field to determine why they chose the field. Draw a comparison between the availability of doctors in the early days of our country and the present. Answer the question, "Do we have adequate numhers of persons in the health fields in our community?" Discuss how the development of improved health services is related to society's desire to improve the quality of life. Field Trip: Visit the Cleveland Health Museum for the purpose of determining any advancements that have been made in the health fields. Identify some careers that function in support of health services but involve other backgrounds.	Occupational Outlook Handbook Dictionary of Occupational Titles Speaker: Discuss how health occupations contribute to the welfare of the community Speaker: The local director of the Medical Association Film: "Corps Profound" (Association) Sterling

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Concept: There is a wide variety of health careers which may be classified in several ways.

Developmental Objective: To develop an awareness of the wide range of opportunities in the health field.

Behavioral Objective: After listing a number of health occupations in which they are interested, the students will be able to classify them according to the amount of education and training necessary.

Related Subject Areas	Learning Activities	Resources and Materials
Health 8	Have students make up listings of health occupations that require various amounts of education. Example: Certificate Baccalaureate Degree High School Diploma Graduate Professional Training	Health Careers Education Guide - Greater Cleveland Hospital Association
	Classify health occupations according to: A. Professional B. Semi-professional C. Technical and Skilled D. Semi-skilled E. Unskilled	Films: "In A Medical Laboratory" "Portrait of Internist" (LCCC)
	Have guidance counselor talk to classes concerning selection of high school courses as they apply to classifications in the above papagraphs.	Ohio Health Career Packet
	Make a list of sources of information relating to health career field.	Health Careers of Ohio
	Have students write to some sources for career information.	Ohio Employment information
	Make a bulletin board consisting of health career information.	

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Concept: Individuals can find self expression in the work they do.

Developmental Objective: To develop an awareness that the health fields offer opportunities to individuals with various personality traits and value systems.

Behavioral Objective: Following role playing situations by various students in which they are applying for a job, class members will discuss why (why not) the student would be hired.

Related Subject Areas	Learning Activities	Resources and Materials
Health 8	Have students participate in work sampling according to their individual interests so they may learn more about themeslves in relation to what is expected of a worker. Examples: Laboratory work Technician	Dictionary of Occupational Titles
	Arrange for student interviews and role playing situations where students play the role of employer and employee.	Director of Personnel or person from an employment agency
	Have students select three health occupations they would like to know more about. Have students list skills, training, abilities and types of personality traits for each job.	D. O. T.

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Concept: Individuals differ in their interests, abilities, attitudes and values.

Developmental Objective: To develop an awareness of interests, abilities, attitudes and values as they relate to success in the health fields.

Behavioral Objective: After a visit to a local hospital, students will be able to select three health occupations that coincide with their interests, abilities, attitudes and values.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	Have students list some occupations within the health cluster that interest them.	Lists of health occupation
	Students will review results of the O. V. I. S. and have them interpreted.	School counselor
	Have the class prepare a rating scale that will serve as a guide to self examination. These will include interests and abilities.	
	Survey three health occupations and determine the background and training necessary.	O. O. H. D. O. T. Chronicle Career File
	Students will visit a hospital and get "Hands On" experience in the areas of their expressed interests.	L. C. H. St. Joseph's Hospital
	Have students do a personal data sheet. A. General Background B. Interests C. Skills D. Schooling E. Training F. Hobbies G. Career Plans	
	Have students organize a Health Career display for viewing by the student body.	Posters, pamphlets, books on health careers.

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Concept: Occupational supply and demand have an impact on career planning.

Developmental Objective: To develop an awareness of the long range prospects in the health career fields and the local market regarding health careers.

Behavioral Objective: After being exposed to current statistical information, the student will be able to cite several health occupational fields for which there is a greater demand.

Related Subject Area	Learning Activities	Resources and Materials
Health 9	Using census bureau figures, explore job opportunities in our community in the health fields.	U. S. Bureau of Statistics Local Planning Commission
	Have one or more of the following talk with students regarding trends in health occupations: A. President of local medical association. B. Director of Personnel from a local hospital. C. Director of Nursing Services from a local hospital.	Resource speakers
	Discuss some factors involved with the growth of health occupations. A. Population growth. B. Rising standards of health care. C. Opening of new fields. D. Extension of health services to all members of society	O. O. H. 1972-73 page 26 Local Chamber of Commerce Director
	Using various sources, compile a list of occupations that are in demand locally.	Arthur Freese "A Survey Of Health Careers That Need Filling In American Medicine" - 07 Chronicle Guidance File

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Concept: Occupational supply and demand has an impact on career planning.

Developmental Objective: To develop an awareness of the population and geographic effect on the supply and demand for workers.

Behavioral Objective: Given a class discussion students will be able to constrast and compare the advantages and disadvantages of living and working in a highly populated area, with that of a sparsely populated area.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	Using the Occupational Outlook Handbook, assess the outlook for employment in health careers in various areas of the United states.	O. O. H. 1972-73 page 25 Health Service Occupations pages 77-138
	Compare differences in employment opportunities in a large city such as Cleveland and a smaller city such as Lorain.	
	Explore health career opportunities in the U. S. Armed Services.	Speakers form the Armed Services Careers In The Medical Services of the U. S. Armed Services DACOWITS Room 3D281 The Pentagon Washington, DC 20301
	Using the various sources, determine if locality affects the availability of health related jobs.	Health Careers Guide U. S. Dept. of Labor Out of town or out of state newspaper

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Concept: Job specialization creates interdependency.

Developmental Objective: To develop an awareness that good health services depend upon the talents of many highly skilled people.

Behavioral Objective: Given a list of twenty - five health occupations students should be able to categorize them into specialized and non-specialized fields.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	List as many areas of specialization in the health fields as possible A. Neurosurgery B. Pediatrics C. Gynecology D. Internal Medicine E. Others	Paperback: Horizons Unlimited A. M. A. page 49,50
	List skills that relate to health occupations. A. Medical B. Business C. Mechanical D. Computational E. Artistic	Resource Persons: Medical Clerk Accountant Medical Illustrator
	List some health occupations that might call for aptitudes in above areas or others. (Make a chart showing occupations that would fall under categories in above paragraph.)	
	Have students survey some health occupations and outline the educational background necessary.	O. O. H. D. O. T. Chronicle Career Kit
	Discuss and list scientific advancements that have brought about specilization in health fields.	

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Developmental Objective: To develop an awareness that good health services depend upon the talents of many highly skilled people.

Behavioral Objective: Given a list of twenty - five health occupations students should be able to categorize them into specialized and non-specialized fields.

Related Subject Areas	Learning Activites	Resources and Materials
Health 9	Have students do biographical sketches on some famous persons in the health field. Using the booklet: Horizons Unlimited, explore the various careers allied to the medical profession. Have a panel program using people from local hospital. Film: "Horizons Unlimited" Do a bulletin board display of fields of specialization in the health fields. Have each student survey one area of specialization.	Health Hero Biographies: Metropolitan Life Insurance Co. Library Booklet: Horizons Unlimited Program Services Dept. A. M. A. Film: "Story of Dr. Lister" (Association Sterling)

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Concept: Occupations and life styles are interrelated.

Developmental Objective: To develop an understanding of how values, needs, skills and personality enter into the choice of an occupation.

Behavioral Objective: Given a list of health occupations, the student will be able to compare the life styles associated with these occupations.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	Make a list of benefits students might derive from a job. Have students list their own expectations. A. Contribution to society B. Financial rewards C. Security D. Fringe benefits	Resource persons
	Have students compare the above to a health occupation in which they are interested. Have students write a paper on the person they liked most and why.	Ask local hospital for a brochure on employee benefits plans.
	Compare the life styles of various occupations such as: an actor, a farmer and a politician. How would the performance of their duties affect their lives?	Career Education Resource Guide "Life Style" pages 228-230
	Discuss ways in which a "Socially conscious individual" can contribute to society through health occupations.	

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Concept: Individuals can learn to perform adequately in a variety of occupations.

Developmental Objective: To develop an awareness of the student's area of interest and have him explore each area.

Behavioral Objective: Given a survey and exploration in health occupations, the student will compare his skills and talents to those of persons already in the field, through a written composition.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	Discuss and emphasize how diversity of talents leads to changes in ones' occupation. A. List hobbies and interests B. Associate these with careers in health	
	Explore the possibilities for part-time work experiences in laboratories, hospitals, or other places. Obtain a list of part-time jobs in local hospitals.	Papers Brochures Relatives
	Survey some occupations related to the health fields that involve varied interests and abilities. A. chemist B. drug salesman C. food service person D. home economist E. medical secretary F. recreation director	O. O. H.
	Survey health occupations that might fall into the following categories: A. creative B. administrative C. executive D. routine E. varied F. adventurous G. leadership	D. O. T. Chronicle Career File "Occupational View Deck" Pamphlet: Medical Library Careers Medical Lib. Association Inc. 919 N. Michigan Ave. Chicago, IL 60611

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Concept: Individuals can learn to perform adequately in a variety of occupations.

Developmental Objective: To develop an awareness of the student's area of interest and have him explore each area.

Behavioral Objective: Given a survey and exploration in health occupations, the student will compare his skills and talents to those of persons already in the field, through a written composition.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	Schedule "hands on" experiences in a hospital, school, or community job station.	Hospital Health Dept. Social Agencies Community Agencies Laboratories Lorain County Community College

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Concept: Career development requires a continuous and sequential series of choices.

Developmental Objective: To develop an awareness that long range goals and objectives are important in career planning.

Behavioral Objective: The student will demonstrate an understanding that a career involves a series of decisions.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	Have each student outline his goals in life. Discuss guidance sources for young people. A. parents B. teachers C. counselors D. other professional or employed persons Discuss some of the optional decisions to be made in preparation for a health career. A. on-the-job training B. two year college C. four year college D. technical institute Construct a chart of 4 year, 2 year and vocational institutions that offer training in the student's area of interest.	School counselor Film strip and cassette: "Counseling in Vocational Decision" SVE "College View Deck" Guide to College Majors College Catalogs Ohio Employment Information Series Part II Training Directory

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Concept: Various groups and institutions influence the nature and structure of training and performance.

Developmental Objective: To develop an awareness of the various regulating agencies and professional organizations related to the health career fields.

Behavioral Objective: Given information on licensing laws, employment ethics and procedures, the child will be able to list those that apply to the health career fields.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	Select some health careers and explore the prerequisites for entry into schools and training programs. Explore licensing laws and regulations as they apply to health careers. Define "ethics". Explore codes of ethics in health and other fields. How do they differ? How are they the same? Post articles or briefs concerning conflicts in ethics. What procedures or requirements are necessary for upgrading competencies in the health fields. Determine through research, how professional societies control standards within the health professions. Write the A. M. A. concerning rules and regulations for standards in the health fields.	College Catalogs Health Careers Educational Guide Greater Cleveland Hospital Association Ohio Employment Information Series Part III Licensed Occupations And Businesses Copy of "Hipocratic Oath" Bulletin board A. M. A.

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Concept: Individuals are responsible for their career planning.

Developmental Objective: To develop an understanding of the relationship between high school courses and activities with the health career field.

Behavioral Objective: Given the High School Course Selection Guide, the student will be able to outline three programs that might relate to health careers.

Related Subject Areas	Learning Activites	Resources and Materials
Health 9	Define "Career" as opposed to "job". Discuss the distinction. Introduce methods of studying careers. A. clusters B. education C. training D. people, data, things E. professional, non-professional F. skilled, non-skilled Define those factors that enter in to a career decision. A. interests B. abilities C. aptitudes Write an essay titled "My Career Plans" Have a speaker from a local hospital or medical association discuss high school course selection for those interested in health careers. A. requirements for various fields. B. helpful electives. (con't)	Dictionary USOE clusters O. O. H. D. O. T. Pamphlet: Planning Your Career General Electric Co. Educational Relations 570 Lexington Ave. New York, NY 10022 Cassette: "Introducting The World Of Work: Approach To Studying Occupations" Pamphlet: "Can I Get The Job?" Public Relations Staff General Motors Corp. Detroit, Mich. 48202 Film: "People Working For People" Association Sterling 26 min. color

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Behavioral Objective: Given the High School Course Selection Guide, the student will be able to outline three programs that might relate to health careers.

Related Subject Areas	Learning Activites	Resources and Materials
Health 9	Write to some sources for career information related to individual interests. Students will outline their course selections as though they were preparing for a health career. Counselor will check them and approve the program. Have students put material in a folder for future reference and answer any questions students might have concerning newly acquired information. Visit Lorain County Community College or other near-by institution and have health careers explained to students. Tour the facilities.	Pamphlet: "Where To Get Health Career Information" National Health Council Inc. 1740 Broadway New York, NY 10019 Health Careers of Ohio P. O. Box 5574 Columbus, Ohio 43221

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Concept: Job characteristics and individuals must be flexible in a changing society.

Developmental Objective: To develop an awareness that changing job characteristics require specialized education, preparation, and training.

Behavioral Objective: Given information concerning opportunities for men and women in the health field, the student will outline a plan that can guide him through the high school years.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	Have students conduct survey at a local hospital. Ask questions regarding: A. level of education B. area of specialzation C. school attended D. advanced training	Career Education Resource Guide "After Graduation" pages 205 206
	Draw a graph or chart that will show opportunities for advancements in the health fields.	Booklet: Horizons Unlimited A. M. A.
	Prepare a chart that shows the job hierarchy within some health fields.	Career Education Resource Guide pages 215-216
	Make a list of factors that could necessitate a change in career. Also list persons or examples of persons who have changed careers.	
	Have students project themselves into the future. Have them make a list of factors that might necessitate a career change or a change in emphasis based on their own career plans.	
	Have students research the opportunities for men and women in the health fields. A. Is there discrimination in job hiring in the health fields?	Cassette: "Women In Work: Planning Double Career, Education Needs, Future Trends"

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Concept: Job characteristics and individuals must be flexible in a changing society.

Developmental Objective: To develop an awareness that changing job characteristics require specialized education, preparation, and training.

Behavioral Objective: Given information concerning opportunities for men and women in the health field, the student will outline a plan that can guide him through the high school years.

Related Subject Areas	Learning Activities	Resources and Materials
Health 9	B. Discuss the problems related to dual careers for women. C. What opportunities are available for minority groups? D. Is there competition for jobs and and advancement. Construct a brochure titled, "Your Career In Health." Outline the fields, qualifications, opportunities, pay, and other factors that attract persons to the health fields.	Sample brochures

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INTRODUCTION

This Career Education material has been prepared to aid teachers of mathematics to integrate, as a regular part of the mathematics curriculum, the idea of career discovery on the part of the student. It is not intended that Career Education be taught as an isolated course or as a separate unit.

A recent survey conducted by Princeton University shows that over 85% of those employed in our nation are dissatisfied with their jobs; and, given the opportunity, they would choose another career. This is unfortunate as it is often too late to make a change for one reason or another. With the Career Education Program and the use of this material, hopefully, this situation will not arise here in the City of Lorain.

Career Education is one of the great forces harnessed by educators of the twentieth century. Therefore, with this thought in mind, teachers may make mathematics a more fascinating career oriented subject and at the same time provide the students with a vast knowledge of mathematics in their everyday lives.

It is the desire of the committee that this material will contribute much toward the Career Education development of the children of Lorain.

Concept: Occupations exist for a purpose.

Developmental Objective: To develop an understanding of the basic concepts of production, distribution, and consumption as they relate to jobs in the economic structure.

Behavioral Objective: Through the use of role playing and games, the student will display a knowledge of the purpose of the job and its relationship with math.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 7	(1) Have students play role of cashier.	Film: A-689 "Arithmetic In The Food Stores."
		Speaker
	(2) Use work sheets for making change.	Work sheets
		Textbook
	(3) Use games similar to Monopoly employing the use of making change.	Games

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Concept: There is a wide variety of careers which may be classified by specialized knowledge, abilities, and attitudes.

Developmental Objective: To develop an understanding of the importance of equations and formulas to specialized careers.

Behavioral Objective: Given research, field trips and role playing, the student will be able to relate his present studies of equations and formulas to a specialized career of his choice.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 7	(1) Give students a list of equations and have them fit the equationswith a related list of careers.	Textbooks D.O.T. Career Kits Posters by Walch Publishers
	(2) Have students role play an air traffic controller computing time of arrival when rates and distances are given.	Payroll sheets Bank forms
	(3) A visit to a building under construction where the use of various equations and formulas may be pointed out to the students by an employer.	Field trips
	(4) A visit to a science class to see compounds made from elements.	Labels of contents of medicines, foods, chemicals, etc.

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Concept: Education and work are interrelated.

Developmental Objective: To develop the importance of the set of rational numbers to the world of work.

Behavioral Objective: Given a list of careers, the student will be able to associate with each, the use of numbers and sets.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 7	(1) Have students attempt to name occupations or careers where rational numbers are not used. Students will soon realize their efforts are futile.	D.O.I. Career Kits Walch Publishers Job Exploration Kit Bulletin board
	(2) Have students name careers and tell how rational numbers are employed.	Textbook
	(3) Have students figure local sales tax utilizing rational numbers.	IRS Tax Forms
	(4) Invite a cashier, salesman, adjuster or banker to tell the importance of rational numbers to his career.	Speaker

Level 7

BEST COPY AVAILABLE

Concept: Education and work are interrelated.

Developmental Objective: The student will develop an understanding of the process of calculating taxes and the occupations existing in that area.

Behavioral Objective: The student will demonstrate a better understanding of the computation of taxes and careers related to taxes through the performance of tests and self analysis.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 7	(1) Have students play role of a salesman or cashier where they are given the price of an article and the rate of sales. Find the amount of tax and total selling price. (2) Have students list types of taxes (gas, luxury, excise, etc.) and who pays them relative to careers. (3) Invite a businessman to speak to the class on the importance of taxes to his business. (4) Take a field trip to a large department store or grocery store. Let students see how taxes are computed. Ask the manager to explain the process used to compute taxes and the importance of the cashier following directions.	Textbook Tax schedule Newspaper Bulletin board Tax forms IRS Schedules Career Kit Library Speaker Field trip to department store or grocery store.

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Concept: Job specialization creates interdependency.

Developmental Objective: To develop an awareness that there is a direct relationship between job specialization, precision and accuracy.

Behavioral Objective: After researching math related occupations, the student will be able to write a job description for one occupation. The class will then compare their job descriptions and will be able to determine how precision and accuracy relate to specialization.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 7	(1) Permit a student to dictate instructions to the class on how to find an article in his house. Permit class to read notes they have taken. Allow class to read a newspaper article and ask members to tell their interpretation of the article. Summarize the activity by stressing the importance of precision and accuracy. (2) Have students tell why they want a pharmacist, doctor, pilot, highway engineer, carpenter, etc. to be well informed, precise, and accurate. Ask students to write one sentence to summarize the discussion. "Our lives depend on precision and accuracy." (3) Invite industrial arts teacher to speak to the class and make a tour of his department to view some of the tools used to accomplish precision and accuracy.	Textbook Doctor Pharmacist Newspaper Bulletin Board Posters by Walch Publishing Co. D.O.T. Field trip to construction site Job Exploration Kit Industrial Arts Teacher Metric tools

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Concept: Occupations and life styles are interrelated.

Developmental Objective: To involve the student in the skills of percents and their relationship to employment and everyday living.

Behavioral Objective: Given research and role playing, the student will be able to use the skills involved in the topic of percent and discuss the relationship between percent and careers.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 7	(1) Have students play role of salesman and purchaser. Compute: A. Per cent discount for employees. B. Per cent discount for sales. (2) Ask students to collect sales ads from newspaper. Show how to figure with per cent "off" vs. per cent of "cost."	Textbook Sales Tax Schedule D.O.T. Job Exploration Kit Newspaper Films: "Meaning Of Percentage," A-305 "Percentage" A-364 LCCC Film Catalog

BEST COPY AVAILABLE

Concept: Individuals are responsible for their career planning.

Developmental Objective: To develop an understanding of the relationship between high school courses in "area" and activities within the world of work.

Behavioral Objective: The student will role play a chosen career and demonstrate the use of accurate area computation.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 7	(1) Student will role play a salesman measuring floor to be covered.	Textbook Floor plans Newspaper D.O.T.
	(2) Have student use floor plans of different houses to measure living area (square feet).	Set of house plans
	(3) Study floor plan of the construction of a home or addition to a home.	Field trip

BEST COPY AVAILABLE

Concept: Occupations exist for a purpose.

Developmental Objective: To develop an understanding of the basic concepts of production, distribution, and consumption as they relate to jobs in the economic structure.

Behavioral Objective: Through the use of role playing and games, the student will display a knowledge of the purpose of the job and its relationship with math.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 8	(1) Have student play role of cashier while others are customers. (2) Use work sheets for making change. (3) Use games similar to Monopoly employing the use of making change.	Film-A689 "Arithmetic In The Food Store." Speaker Work sheets Textbook Games Play money

BEST COPY AVAILABLE

Concept: There is a wide variety of careers which may be classified by specialized knowledge, abilities, and attitudes.

Developmental Objective: To develop an understanding of the importance of equations and formulas to specialized careers.

Behavioral Objective: Given research, field trips, and role playing, the student will be able to relate his present studies of equations and formulas to a specialized career of his choice.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 8	(1) Give students a list of equations and have them fit the equations with a related list of careers.	Textbook D O T Career Kits Posters by Walch Publishers
	(2) Have a student play role of an air traffic controller computing time of arrival when rates and distances are given.	
	(3) Visit a building under construction where the use of various equations and formulas may be pointed out to the students by an employer.	Field trip Payroll sheets Bank forms
	(4) Visit a science class to see compounds made from elements.	Labels of contents of medicines, foods, and chemicals

BEST COPY AVAILABLE

Concept: Education and work are interrelated.

Developmental Objective To develop the importance of the set of rational numbers to the world of work.

Behavioral Objective Given a list of careers, the student will be able to associate with each, the use of numbers and sets.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 8	(1) Have students attempt to name occupations or careers where rational numbers are not used. Students will soon realize their efforts are futile.	D.O.T. Career Kits Posters by Walch Publishers Job Exploration Kit
	(2) Have students name a career and tell how rational numbers are employed.	Bulletin board
	(3) Have student figure local sales tax utilizing rational numbers.	Textbook IRS Tax Forms
	(4) Invite a cashier, salesman, adjuster or banker to tell the importance of rational numbers to his career.	Speaker

BEST COPY AVAILABLE

Concept: Education and work are interrelated.

Developmental Objective: The student will develop an understanding of the process of calculating taxes and the occupations existing in that area.

Behavioral Objective: The student will demonstrate a better understanding of the computation of taxes and careers related to taxes through the performance of test and self analysis.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 8	(1) Have students play role of a salesman or cashier where they are given the price of an article and the rate of sales. Find the amount of tax and total selling price.	Textbook Tax Schedule Newspaper Bulletin board
	(2) Take a field trip to a large department store. Let students see how taxes are computed. Ask the manager to explain the process used to compute taxes and the importance of the cashier following directions.	Field trip to department store
	(3) Have students list types of taxes (gas, luxury, excise, etc.) and who pays them relative to careers.	Tax Forms IRS Schedules Career Kits Library
	(4) Invite a businessman to speak to the class on the importance of taxes to his business.	Speaker
	(5) Have students try to find a career where taxes are not employed.	Posters by Walch Publishers D.O.T.

BEST COPY AVAILABLE

Concept: Job specialization creates interdependency.

Developmental Objective: To develop an awareness that there is a direct relationship between job specialization and precision and accuracy.

Behavioral Objective: After researching math related occupations, the student will be able to write a job description for one occupation. The class will compare their job descriptions and will be able to determine how precision and accuracy relate to specialization.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 8	(1) Permit a student to dictate instructions to the class on how to find an article in his house. Permit class to read notes they have taken. Allow class to read a newspaper article and ask members to tell their interpretation of the article. Summarize the activity by stressing the importance of precision and accuracy. (2) Have students tell why they want a pharmacist, doctor, pilot, highway engineer, carpenter, etc. to be well informed, precise, and accurate. Ask students to write one sentence to summarize the discussion. "Our lives depend on precision and accuracy." (3) Invite industrial arts teacher to speak to the class and make a tour of his department to view some of the tools used to accomplish precision and accuracy. (4) For special project, have students interview one of the above specialists on subject and make a report to the class.	Textbook Doctor Pharmacist Newspaper Bulletin board Posters by Walch Publishing Co. D.O.T. Field trip to construction site Job Exploration Kit Industrial Arts Teacher Metric tools Library Community

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Concept: Occupations and life styles are interrelated.

Developmental Objective: To involve the student in the skills of percents and their relationship to employment and everyday living.

Behavioral Objective: Given research and role playing, the student will be able to use the skills involved in the topic of percent and discuss the relationship between percent and careers.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 8	(1) Have students play role of salesman and purchaser. Compute: A. Per cent discount for employees. B. Per cent discount for sales. C. Sales tax. D. Per cent commission.	Textbook Sales Tax Schedule D.O.T. Job Exploration Kit
	(2) Ask students to collect sales ads from newspaper. Show how to figure price per cent "off" vs per cent "cost."	Newspaper Film-A305 "Meaning of Percentage" LCCC Film Catalog

BEST COPY AVAILABLE

Concept: Individuals are responsible for their career planning.

Developmental Objective: To develop an understanding of the relationship between high school courses in "area" and activities within the world of work.

Behavioral Objective: The student will role play a chosen career and demonstrate the use of accurate area computation.

Related Subject Areas	Learning Activities	Resources and Materials
Math Level 8	(1). Student will play role of salesman measuring floor to be covered	Textbook Floor plans Newspaper D.O.T.
	(2) Have student use floor plans of different houses to measure living area (square feet).	Set of house plans
	(3) Study floor plans of the construction of a home or the addition to a home.	Field trip

BEST COPY AVAILABLE

Concept: Occupations exist for a purpose.

Developmental Objective: To develop an understanding of the basic concepts of production, distribution, and consumption as they relate to jobs in the economic structure.

Behavioral Objective: Through the use of role playing and games the student will display a knowledge of the purpose of the job and its relationship with math.

Related Subject Areas	Learning Activities	Resources and Materials
General Math Level 9	(1) Have students play role of cashier while others are customers (2) Have students use work sheets for making change. (3) Administer written test. (4) Conduct games similar to Monopoly employing the use of making change.	Film-A689 "Arithmetic In The Food Store." Speaker Work sheets Textbook Games Play money

Level 9

BEST COPY AVAILABLE

Concept: There is a wide variety of careers which may be classified by specialized knowledge, abilities, and attitudes.

Developmental Objective: To develop an understanding of the importance of equations and formulas to specialized careers.

Behavioral Objective: Given research, field trips, and role playing, the student will be able to relate his present studies of equations and formulas to a specialized career of his choice.

Related Subject Areas	Learning Activities	Resources and Materials
General Math Pre Algebra Level 9	(1) Give students a list of equations and have them fit the equations with a related list of careers.	Textbook D.O.T. Career Kits Posters by Walch Publishers
	(2) Have students play role of air traffic controller computing time of arrival when rates and distances are given.	
	(3) Visit a building under construction where the use of various equations and formulas may be pointed out to the students by an employer.	Payroll sheets Bank forms Field trip
	(4) Visit a science class to see compounds made from elements.	Labels of contents of medicines, foods, chemicals, etc.
	(5) Samples of payrolls used by managers in all occupations and interest formulas used by banks may prove interesting.	Bank Loan Forms

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Concept: Education and work are interrelated.

Developmental Objective: The student will develop a knowledge of the process of calculating taxes and the occupations existing in that area.

Behavioral Objective: The student will demonstrate a better understanding of the computation of taxes and careers related to taxes through performance of tests and self analysis.

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Related Subject Areas	Learning Activities	Resources and Materials
General Math Level 9	(1) Have students play role of a salesman or cashier where they are given the price of an article and the rate of sales. Find the amount of tax and total selling price.	Textbook Tax Schedule Newspaper Bulletin board Field trip to department store
	(2) Have students list type of taxes (gas, luxury, excise, etc.) and who pays them relative to careers.	Tax Forms IRS Schedule Career Kit Library
	(3) Invite a businessman to speak to the class on the importance of taxes to his business.	Speaker
	(4) Have students try to find one career where taxes are not employed.	D.O.T. Posters by Walch Publishers Field trip to Federal Reserve Bank
	Continued	

Concept: Education and work are interrelated.

Developmental Objective: The student will develop a knowledge of the process of calculating taxes and the occupations existing in that area.

Behavioral Objective: The student will demonstrate a better understanding of the compilation of taxes and careers related to taxes through performance of tests and self analysis.

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Related Subject Areas	Learning Activities	Resources and Materials
General Math Level 9	(5) Compute: A. Income tax having total number of exemptions given. B. Property tax when rate and assessed value of property is given. C. Use advertisements from local newspapers and find total price of automobiles.	

Concept: Education and work are interrelated.

Developmental Objective: To develop the importance of the set of rational numbers to the world of work.

Behavioral Objective: Given a list of careers, the student will be able to associate with each, the use of numbers and sets.

Related Subject Areas	Learning Activities	Resources and Materials
General Math Level 9	(1) Have students attempt to name occupations or careers where rational numbers are not used. Students will soon realize their efforts are futile.	D.O.T. Career Kits Posters by Walch Publishers Job Exploration Kit
	(2) Have student name a career and tell how rational numbers are employed.	Bulletin board
	(3) Have students figure local sales tax utilizing rational numbers.	Textbook IRS Tax Forms
	(4) Invite a cashier, salesman, adjuster, or banker to tell the importance of rational numbers to his career.	Speaker
	(5) Permit students to figure income taxes for salaries over $10,000.00.	Post Office Library
	(6) Invite a housewife to speak to class on importance of rational numbers to daily living.	Speaker
	(7) Written test.	
	(8) Interview with students.	

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Concept: Education and work are interrelated.

Developmental Objective: To develop an understanding of the direct relationship between studying exponents and scientific notation and their relationship to employment.

Behavioral Objective: Through field trips and research, the student will demonstrate a better knowledge of all the careers related to exponents and scientific notations.

Related Subject Areas	Learning Activities	Resources and Materials
Pre Algebra Algebra I Level 9	(1) Have students convert large and very small numbers to scientific notation. (2) Have students bring to class, articles from local newspapers containing careers and examples of the above process. (3) Invite individuals from community that are employed in related fields to give a talk on process stated and relationship to careers. (4) Take students to NASA in Cleveland, to see the stated process in an actual working operation.	Textbook Work sheets Bulletin board Newspapers Speaker from related employment Posters Use of D.O.T. Job Exploration Kit Field trip to NASA

Level 9

BEST COPY AVAILABLE

Concept: Job specialization creates interdependency.

Developmental Objective: To develop an awareness that there is a direct relationship between job specialization and precision and accuracy.

Behavioral Objective: After researching math related occupations, the student will be able to write a job description for one occupation. The class will then compare their job description and will be able to determine how precision and accuracy relate to specialization.

Related Subject Areas	Learning Activities	Resources and Materials
General Math Level 9	(1) Permit a student to dictate instructions t. ie class on how to find an article in his house. Permit class to read notes they have taken. Allow class to read newspaper article and ask members to tell their interpretation of the article. Summarize the activity by stressing the importance of precision and accuracy. (2) Have students tell why they want a pharmacist, doctor, pilot, highway engineer, carpenter, etc. to be well informed precise, and accurate. Ask students to write one sentence to summarize the discussion. "Our lives depend on precision and accuracy." (3) Invite industrial arts teacher to speak to the class and take a tour of his department to view some of the tools used to accomplish precision and accuracy. (4) For special project, have students interview one of the above specialists on subject and make a report to the class.	Textbook Doctor Pharmacist Newspaper Bulletin board Posters by Walch Publishing Co. D.O.T. Field trip to construction site Job Exploration Kit Industrial Arts Teacher Metric tools Library Community

BEST COPY AVAILABLE

Concept: Job specialization creates interdependency.

Developmental Objective: To enable the student to learn the application of the Pythagorean theorem and the related employment.

Behavioral Objective: Through exploration, plotting flight patterns and boat courses, the student will show a better understanding of the related careers and the relationship to other careers.

Related Subject Areas	Learning Activities	Resources and Materials
Pre Algebra Algebra I Level 9	(1) Have students list careers using Pythagorean theorem (Exp. Construction surveyor, etc.)	Textbook D.O.T. Job Exploration Kit
	(2) Student will list careers that are dependent on above careers.	
	(3) Plot flight patterns.	Maps Field trip to airport
	(4) Plot boat courses.	
	(5) Allow students to have "hands on" experience with equipment used in related careers.	Desk Top Kits Equipment used in surveying, construction, navigation, etc.

BEST COPY AVAILABLE

Concept: Occupations and life styles are interrelated.

Developmental Objective: To involve the student in the skills of percents and their relationship to employment and everyday living.

Behavioral Objective: Given research and role playing, the student will be able to use the skills involved in the topic of percents and discuss the relationship between percent and careers.

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Related Subject Areas	Learning Activities	Resources and Materials
General Math Pre Algebra Level 9	(1) Have students play role of salesman and purchaser. Compute A. Per cent discount for employees. B. Per cent discount for sales. C. Sales tax. D. Per cent commission.	Textbook Sales Tax Schedule D O T Job Exploration Kit
	(2) Collect sales ads from newspaper. Show how to figure price with per cent "off" vs. per cent "cost." (3) Class discussion on mixtures of liquids and dry measures.	Newspaper Films A305 "Meaning Of Percentage," A364 "Percentage" LCCC Film Catalog Labels of contents of antifreeze and grass seed package to show mixture

97

Concept Individuals are responsible for their career planning.

Developmental Objective To develop an understanding of the relationship between high school courses in "area" and activities within the world of work.

Behavioral Objective The student will role play a chosen career and demonstrate the use of accurate area computation.

Related Subject Areas	Learning Activities	Resources and Materials
General Math Algebra Level 9	(1) Student will play role of salesman measuring floor to be covered.	Textbook Floor plans Newspaper D.O.T.
	(2) Have student use floor plans of different houses to measure living area (square feet).	Set of house plans
	(3) Study floor plans of the construction of a home or the addition to a home.	Field trip

BEST COPY AVAILABLE

Concept Job specialization creates interdependency.

Developmental Objective To enable the student to learn the application of the Pythagorean theorem and the related employment.

Behavioral Objective Through exploration, plotting flight patterns, and boat courses the students will show a better understanding of the related careers and the relationship to other careers.

Related Subject Area	Learning Activities	Resources and Materials
Geometry Level 10	(1) Students will list careers that use the Pythagorean theorem (construction surveyor).	Textbook D.O.T. Job Exploration Kit
	(2) Students will list careers that are dependent on above careers.	
	(3) Plot flight patterns.	Maps Field trip to airport
	(4) Plot boat courses.	
	(5) Allow students to have "hands-on" experiences with equipment used in related careers.	Desk Top Kit Equipment used in surveying, construction, navigation, etc.
	(6) Plot above (3 & 4) but use water currents (use of vectors).	Diagrams Teacher

Level 10

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Concept: Individuals can learn to perform adequately in a variety of occupations.

Developmental Objective: To recognize career horizons through participation in simulated activities and work situations.

Behavioral Objective: Through "hands-on" experiences, students will demonstrate knowledge and accurate use of small tools and their application in a variety of careers.

Related Subject Areas	Learning Activities	Resources and Materials
Geometry Level 10	(1) Students will do basic geometric constructions.	Textbook Teacher-prepared worksheet
	(2) Students will list careers in which small tools are basic.	Occupations In Geometry Posters by J. Weston Walch Career Kit D.O.T.
	(3) Students will have "hands-on" experiences with tools used in related careers.	Equipment used in careers (drafting, medicine, electricity, etc.)
	(4) Invite individuals from related careers to speak to the class (drafting, construction, etc.).	Speaker from community to demonstrate tools used in his career
	(5) Have students find center of classroom with simple tools (straight edge and compass).	

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Concept: Career development requires a continued and sequential series of choices.

Developmental Objective: To develop an understanding that careful educational planning may shorten required training time for employment.

Behavioral Objective: The student will demonstrate the use of ratios and proportions in drafting, architecture, and other related careers.

Related Subject Areas	Learning Activities	Resources and Materials
Geometry Level 10	(1) Students will go out on school campus and make a scale drawing of football field, baseball diamond, etc.	Textbook Tape measure Blue prints Drawing instruments Surveying instruments Bulletin board Posters Speaker from related careers
	(2) Students will draw a floor plan of the classroom or their house.	
	(3) Students will use blue prints or floor plans to find actual distances from a scale drawing.	
	(4) Students will calculate distances between various parts on a map using proportions.	D.O.T.
	(5) Students will list all careers that are directly or indirectly related to the above process.	Desk Top Kits Job Exploration Kit

Level 10

BEST COPY AVAILABLE

Concept: Individuals are responsible for their career planning.

Developmental Objective: To develop an understanding of the relationship between high school courses in "area" and activities within the world of work.

Behavioral Objective: The student will role play a chosen career and demonstrate the use of accurate area computation.

Related Subject Area	Learning Activities	Resources and Materials
Geometry Level 10	(1) Students will role play role of salesman measuring floor to be covered.	Floor plans Newspaper Job Exploration Kit
	(2) Use floor plans of different houses to measure living area (square feet).	
	(3) Study floor plan of the construction of a home or addition to a home.	Floor plan from newspaper Set of house plans Bulletin board
	(4) Calculate the cost of painting a house by figuring square feet of surface area.	Teacher Speaker

Level 10

BEST COPY AVAILABLE

Concept: Education and work are interrelated.

Developmental Objective: To develop an understanding that there is a direct relationship between education and future careers.

Behavioral Objective: The students will demonstrate a better understanding of the careers that are related to what they are studying through group evaluation and written tests.

Related Subject Areas	Learning Activities	Resources and Materials
Algebra II Level II	(1) Students will list careers that use the process of finding maximum or minimum values. (2) Take students out into community to visit employees that use above principle. (3) Take students out into community to visit employers that use above principle. (4) Students will solve problems dealing with minimum and maximum values. Level II	Textbook Speaker from related careers within community Bulletin board D.O.I. Job Exploration Kit Field trips to various community businesses

BEST COPY AVAILABLE

Concept: Education and work are interrelated.

Developmental Objective: To develop an understanding of the direct relationship between studying exponents and scientific notation and their relationship to employment.

Behavioral Objective: Through research and field trips, the student will demonstrate a better knowledge of all the careers related to exponents and scientific notations.

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Related Subject Areas	Learning Activities	Resources and Materials
Algebra II Level 11	(1) Have students convert large and very small numbers to scientific notation.	Textbook Work sheets Bulletin board
	(2) Have students bring to class, articles from local newspapers containing careers and examples of the above process.	Newspaper
	(3) Invite individuals from the community that are employed in related fields to give a talk on process stated and relationship to careers.	Speaker from related employment Posters D.O.T. Job Exploration Kit
	(4) Take students to NASA in Cleveland, to see the stated process in actual working operation.	Field trip to NASA

101

Concept: Job specialization creates interdependency.

Developmental Objective: To enable the student to learn the application of the Pythagorean theorem and the related employment.

Behavioral Objective: Through exploration plotting flight patterns and boat courses, the students will show a better understanding of the related careers and the relationship to other careers.

Related Subject Areas	Learning Activities	Resources and Materials
Algebra II Level 11	(1) Students will list careers that use Pythagorean theorem (construction, surveyor, etc).	Textbook D.O.T. Job Exploration Kit Math Application Kit
	(2) Students will list careers that are dependent on above careers.	
	(3) Plot flight patterns.	Maps Field trip to airport
	(4) Plot boat courses.	
	(5) Allow students to have "hands on" experiences with equipment used in related careers.	Desk Top Kit Equipment used in surveying, construction, navigation, etc.
	(6) Plot above (3 & 4) but use water currents (use of vectors).	Diagrams Teacher

Level 11

BEST COPY AVAILABLE

Concept: Job specialization creates interdependency.

Developmental Objective: To enable the student to learn the application of the Pythagorean theorem and the related employment.

Behavioral Objective: Through exploration, plotting flight patterns, and boat courses, the student will show a better understanding of the related careers and their relationship to other careers.

Related Subject Areas	Learning Activities	Resources and Materials
Geometry Level 11	(1) Students will list careers that use Pythagorean theorem (construction surveyor, etc.).	Textbook D.O.T. Job Exploration Kit
	(2) Students will list careers that are dependent on the above careers.	
	(3) Plot flight patterns.	Maps Field trip to airport
	(4) Plot boat courses.	
	(5) Allow students to have "hands on" experiences with equipment used in related careers.	Desk Top Kit Equipment used in surveying, construction, navigation, etc.
	(6) Plot above (3 & 4) but use water currents (use of vectors).	Diagrams Teacher

Level 11

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Concept: Education and work are interrelated.

Developmental Objective: To develop an understanding that there is a direct relationship between education and future careers.

Behavioral Objective: The students will demonstrate a better understanding of the careers that are related to what they are studying through group evaluation and written tests.

Related Subject Areas	Learning Activities	Resources and Materials
Analytical Geometry Level 12	(1) Students will list careers that use the process of finding maximum or minimum values. (2) Take students out into the community to visit employees that use above principles. (3) Take students out into the community to visit employers that use above principles. (4) Students will solve problems dealing with minimum and maximum values.	Textbook Speakers from related careers within the community Field trip to various community businesses Bulletin board D.O.T. Job Exploration Kit

Level 12

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Concept: Job specialization creates interdependency.

Developmental Objective: To enable the students to learn the application of the Pythagorean theorem and the related employment.

Behavioral Objective: Through exploration, plotting flight patterns and boat courses, the students will show a better understanding of the related careers and the relationship to other careers.

Related Subject Areas	Learning Activities	Resources and Materials
Trigonometry Level 12	(1) Students will list careers that use Pythagorean theorem (construction surveyor).	Textbook D.O.T. Job Exploration Kit
	(2) Students will list careers that are dependent on above careers.	
	(3) Plot flight patterns.	Maps Field trip to airport
	(4) Plot boat courses.	
	(5) Allow students to have "hands on" experiences with equipment used in related careers.	Desk Top Kit Equipment used in surveying, construction, navigation, etc.
	(6) Plot above (3 & 4) but use water currents (use of vectors).	Diagrams Teacher

Level 12

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INTRODUCTION

The overall objective of these activities is to make the student more knowledgeable of the occupational opportunities that are available to him in the field of science.

These activities are not in the nature of a directive. Rather, they are suggestions, to be modified or adapted to the teacher's individual needs. They may be used in a variety of ways to fulfill the requirements of numerous situations.

It is hoped that through Career Education, the student will be made aware that his skill-training only begins in high school; that retraining, refreshing, and redirection throughout his productive life will be continuous.

Concept: Occupations exist for a purpose.

Developmental Objective: To develop an awareness of how science occupations contribute to society.

Behavioral Objective: Given a trip to observe people working in science related careers, the student will be able to report on one occupation he observed.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have students compile a list of as many different fields of science as they can in class. Put these on the chalkboard or overhead. Have students list about twenty-five products that they are exposed to each day (i.e. automobiles, television, clothing etc.) Have the students group these products with the list of science fields compiled in the above activity. (i.e. automobiles-engineering, draftsmen; television-electronics; clothing-chemists). Have the students list as many products as they can that are manufactured within commuting distance of their homes. Students will list the various fields of science that are involved in making each product. Have the students investigate numerous local industries. Have them find out: A. What is produced at the plant? B. How many people does the plant employ? C. What contribution does the plant make within the community? Have the students construct a bulletin board showing all the products that are manufactured at the plant investigated in the above activity. Students will show a direct relationship with the manufactured product and a field of science.	Career Exploration-Booklet Widening Occupational Role Kit Desk Top Kit Dictionary of Occupational Titles Occupational Outlook Handbook People We Know - Booklet "Exploring the World of Work" Cassette "The Modern Craftsman" Filmstrip Chronicle Guidance Library "Where Does It Come From" Filmstrip Chamber of Commerce Career Education Resource Guide Career Orientation - Booklet Job Experience Kits

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Concept: Occupations exist for a purpose.

Developmental Objective: To develop an awareness of the importance of occupations to the growth and development of society.

Behavioral Objective: The student will list and explain the significance of science related careers to the total world of work.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have the students write a paper to answer the question, "Why work?"	Economics professor School library
	Arrange a project in which an assembly line approach is used to complete the task. Have certain members of the team lag or perform poorly. Discuss the results.	
	Have the students remove two or three specific jobs from a cluster and explain how this affects the cluster.	Dictionary of Occupational Titles Occupational Outlook Handbook
	Take a field trip to a local industry to observe assembly line procedures.	Field trip to Ford Plant, U.S. Steel, IBM Corporation
	Have a representative from National Alliance of Businessmen speak on the purpose of occupations.	National Alliance of Businessmen representative

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Concept: Education and work are interrelated.

Developmental Objective: To discover the importance of education and how it is related to acquiring a desired job.

Behavioral Objective: The student will be able to explain the relationship between what he is currently studying in science and related occupations.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Each student will select three units of interest from his science text. After selecting these units the students will organize similar interest groups. The students will discuss why they made these selections. Students will make a list of as many related occupations as they can that are related to the units that they selected from their text. After the list has been compiled, students will research these occupations. Students will do research into the educational requirements needed for each of the vocations researched in the previous activity. Teacher, through the cooperation of the Career Education Coordinator, will invite various speakers from related fields to come in and talk with the students about education and training needed.	Occupational Outlook Handbook Student's Science Book Science Magazines Library "Classroom Journey" 35mm Filmstrip American Occupational Series- Tapes Science Career Kits Dictionary of Occupational Titles Occupational Outlook Handbook Quarterley Occupational View Deck Chronicle Guidance Library "An Introduction to Vocation" 35mm Filmstrip Job Experience Kit What Are Job Families - Booklet "Worlds Without Worlds" 35mm Filmstrip What Good is School? Booklet So You Want a Job? Student Booklet Curriculum Guide for Career Education "Worlds Within Worlds" Slides Career Education" 16mm Film "School Report" 16mm Film "Career Exploration" 16mm Film Local Telephone Directory Chamber of Commerce Local Employment Agencies Career Education Director Public Relations Personnel

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Concept: Individuals differ in their interests, abilities, attitudes and values.

Developmental Objective: To give students the opportunity to discover his personal capabilities as they are related to careers in science.

Behavioral Objective: Students will be able to research three careers which are within his personal abilities.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Students will make a list of science related careers in which they are interested. From this list, they will narrow it down to two or three fields in which they are most interested. The students will prepare a short paper on each of the selected fields. Students will research the two or three interest fields selected in the above activity. They should find out about: A. working conditions, B. duties, C. personal requirements, D. education and training, E. job outlook, F. related fields. Student will make arrangements with the guidance counselor to discuss results from aptitude and skills tests. The teacher could make a selection of most popular fields chosen by the students and contact guest speakers to come and talk to the class about these various occupations. Students will construct a bulletin board using materials acquired through their research. Students may have the bulletin board for two weeks at a time. During this time materials may be added daily. It is a good idea to photograph unusually good bulletin boards before they are taken down.	Dictionary of Occupational Titles Occupational Outlook Handbook Science Career Kit Occupational Exploration Kits Exploring the World of Work - cassettes Widening Occupational Role Kit "What are Job Families?" Slides "Jobs for the 70's" Slides "The World of Work" 35mm Filmstrip & cassettes Occupational View Deck So You Want a Job- Handbook Learn How to Study - Handbook What Do You Like to Do? Booklet What is a Job? Booklet What Good is School? Booklet What Are Job Families? Booklet Counseling in Vocational Decisions" 35mm Filmstrip Vocational Development in Grades 7-8 Booklet "Responsibility Yes or No" Cassette Local Telephone Directory Chamber of Commerce Resource People (parents, friends, relatives) Local Employment Agencies State Employment Agency School's Art Teacher Local Newspapers Magazines Pamphlets from various agencies Career Education Bulletin Board Ideas

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Concept: Individuals differ in their interests, abilities, attitudes and values.

Developmental Objective: To give students the opportunity to discover his personal capabilities as they are related to careers in science.

Behavioral Objective: Students will be able to research three careers which are within his personal abilities.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Students will form groups with members of their class who have similar interest fields, for informal, student-led discussions about these interests fields. They will compare notes and share acquired knowledge.	"Classroom Journeys" 35mm Filmstrip

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Concept: Individuals differ in their interests, abilities, attitudes and values.

Developmental Objective: To help the student to identify his individual interests, abilities, attitudes, and values.

Behavioral Objective: Given assessment of his strengths and weaknesses, the student will be able to select three science related professions which are compatible with his own individual interests, abilities, attitudes, and values.

Related Subject Areas	Learning Activities	Resources and Materials
Science	The student, with the help of a guidance counselor, will review his school record.	School Guidance Counselor
	The Guidance Counselor or Career Education Coordinator will administer the O.V.I.S.	
	The student will list his own strengths and weaknesses as he sees them and their advantages and disadvantages in relation to entering a certain career.	Dictionary of Occupational Titles Occupational Outlook Handbook O.V.I.S.
	Have the entire class make a poster indicating their career choices and listing the interests and abilities which will aid them in their career.	
	Have the students exchange careers and discuss their likes and dislikes of that particular career. Comment on these likes and dislikes.	
	Plan work sessions or lab sessions during class in which members must work as a team to complete a task. Plan these sessions in such a way as to improve interpersonal relationships among students.	School laboratory

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BEST COPY AVAILABLE

Concept: Individuals differ in their interests, abilities, attitudes and values.

Developmental Objective: To help the student to identify his individual interests, abilities, attitudes, and values.

Behavioral Objective: Given assessment of his strengths and weaknesses, the student will be able to select three science related professions which are compatible with his own indivudal interests, abilities, attitudes, and values.

Related Subject Areas	Learning Activites	Resources and Materials
Science	Have the School Psychologist entertain a "rap" session in which students may comment on basic personality types. Have the psychologist commont on the personal needs that work satisfies.	School Psychologist
	Have students make a survey of workers who appreciate their work, versus workers who are dissatisfied with their work.	Students' parents
	Assign a different occupation to each student and ask him to evaluate whether his personality is suited for the job.	
	Have a personnel director of a local business cite examples of people who have been hired or fired because of their attitudes and interests.	Personnel director
	Ask students to play roles of employment counselor and client. The client is persuing a certain career and the counselor advises according to his client's personality and abilities.	Employment counselor

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Concept: Occupational supply and demand has an impact on career planning.

Developmental Objective: To develop an awareness that occupational supply and demand is continuously changing.

Behavioral Objective: Given a list of science occupations, the student will be able to identify the present and future job market and list possible changes and the steps necessary to cope with these changes.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have small groups of students visit small businesses (such as a store) to see what effect consumer demand and retailer supply has on the prices of the items being sold.	Small business ie. grocery store, meat market, clothing store, antique shop, etc. Chamber of Commerce
	Have students look up the income scales of some science related fields and compare these professions dollar-wise to other professions which may be in greater demand.	Dictionary of Occupational Titles Occupational Outlook Handbook
	Have teachers, who have majored in fields of study not presently in demand due to a large labor force, explain the dilemma they go through when they seek a job.	Teachers, especially English and Social Science majors.
	Have recent college graduates and graduates of some apprentice programs explain why they are working a job that isn't in their field of study.	Students older bothers and sisters, friends, relatives, etc.
	Have students make a list of science related fields which are considered to have above average income and explain why these careers pay more.	State Employment Service
	Have a dentist or a physician explain why some small towns may subsidize their expenses in medical schools in return for their agreement to practice in that town.	Dentist or physician from this area

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Concept: Occupational supply and demand has an impact on career planning.

Developmental Objective: The student will realize that long range planning is directly related to supply and demand in the labor market.

Behavioral Objective: The student will be able to list three science related occupations which require long range planning and are subject to decline in desirability due to the laws of supply and demand.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have the students select an occupational cluster they are interested in and use the Compulearn to obtain the necessary information of the particular jobs within the cluster to illustrate supply and demand.	Compulearn Dictionary of Occupational Titles Chamber of Commerce
	Have management and labor representatives speak to the class about the laws of supply and demand in the world of work today.	Labor management representative from U.S. Steel. Union representative from Ford Plant "Jobs for the 1970's" - Color slide
	Have a science teacher talk to the class about the decline of emphasis on science careers due to the phasing out of the great "push forward" by the federal government in the early 60's.	Science teachers that are teaching accelerated or college bound Physical and Biological Science classes. Examples: BSCS Program, IPS Program, PSCS Program
	Have a guidance counselor point out that people, who are seeking careers which require long range planning, use other careers as stepping stones.	Occupational Outlook Handbook School Guidance Counselors
	Have an aeronautical engineer or a chemical engineer explain the dilemma he has when major tasks are completed, especially our governments' moon projects, etc., (which cost billions of dollars).	Chemical engineer from B.F. Goodrich Rubber Plant

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Concept: Job specialization results in interdependency.

Developmental Objective: Better understanding of how various scientific fields must be assisted by other related fields.

Behavioral Objective: The student will be able to list occupations within a cluster of scientific fields and show interdependency.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have students choosethree science related fields and report on the interdependent fields or occupations.	Dictionary of Occupational Titles Occupational Outlook Handbook 15 Job Clusters Listing
	Take a field trip to a small organization and a large corporation and have students compare the interactions taking place.	Local telephone company, dentist office, etc.
	Have students involve themselves in role playing or group projects which require interdependence among the group members such as an assembly line.	
	Use people from industry, labor, and the community to discuss how specialized workers depend on each other.	Personnel director from small business, corporation, and school system. Representatives from Union Mission, VISTA, Salvation Army, etc.
	Have students use the Science Career Kits to see how specialization allows for overlapping of job duties, work, enviornment, earnings, fringe benefits, disadvantages, aptitudes, physical and educational requirements, and educational costs.	Science Career Kits
	Take a field trip to a hospital and follow a physician or any health professional at work. Have students make a written and oral report.	Local hospital Compulearn

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Concept: Environment and individual potential interact to influence career development.

Developmental Objective: To develop an awareness of the environmental factors involved in securing a job and the part individual potential plays in helping him to secure the job.

Behavioral Objective: Given a specific job to analyze, the student will be able to assess his own ability and potential for this particular job environment.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have the students list the skills and abilities they possess and the occupations for which they feel qualified at this time.	Dictionary of Occupational Titles Occupational Outlook Handbook O.V.I.S.
	Have students make trips to job sites they believe they qualify for. If possible, have the students work a few hours. Hold class discussion of their experiences. Have them describe the job and list what potential was necessary to perform the job.	Job sites in construction
	Have students visit undersirable job sites to observe and report to the class. Discuss the job's environment and the potential necessary for the job.	Job sites in Street Department, Incinerator Department, Sewage Plant, etc.
	Have the students interview their parents: Ask them the type of environment in which they work and what potential is necessary for the job.	Students parents.
	Have students draw a model of working situations for themselves and link science related jobs to the model.	Chamber of Commerce National Alliance of Businessmen Ohio State Employment Service
	Have the student review the model and its validity.	Films from the Lorain County Supplemental Center

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Concept: Environmental and individual potential interact to influence career development.

Developmental Objective: To help the student explore his potential and to relate this potential to the requirements necessary for a particular science career.

Behavioral Objective: Given resource speakers, field trips and the O.V.I.S. tests, the student will be able to select three science related occupations and explain why they are within his potential.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have a Career Education Coordinator explain the purpose of the O.V.I.S. and other aptitude tests.	Career Education Coordinator Example of the O.V.I.S.
	Administer the O.V.IS. tests and group students according to their interests.	O.V.I.S. test Dictionary of Occupational Titles Occupational Outlook Handbook
	Have students list all jobs within the cluster that the test indicated. Have the student report on these jobs.	School counselor
	Acquire people who are employed in these jobs and have them explain their occupations.	Representatives from various jobs Occupational Experience Kits
	Arrange a field trip to various places and have the students observe the atmosphere and environment. Have the students write a public relations report on their reactions.	Public Relations representative of a company or corporation
	Have a representative from a state or private employment agency explain what individual potential has to do with certain job environments.	Employment agency representative
	Have students make a list of several words used in a particular job and look up their meanings.	School library

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BEST COPY AVAILABLE

Concept: Environmental and individual potential interact to influence career development.

Developmental Objective: To help the student explore his potential and to relate this potential to the requirements necessary for a particular science career.

Behavioral Objective: Given resource speakers, field trips and the O.V.I.S. tests, the student will be able to select three science related occupations and explain why they are within his potential.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have students play the roles of a personnel manager and an applicant for work. Have the manager list the qualifications he is looking for. Have the applicant list his qualifications. Have the class decide whether he gets the job.	Personnel manager

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SERVICE.

Concept: Individuals can learn to perform adequately in a variety of occupations.

Developmental Objective: To develop an awareness that with proper training, individual potential, desire, and interest, a person can change careers.

Behavioral Objective: Given three science related fields, the student will be able to outline the pattern of advancements related to them.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have students select three careers they are interested in. Using the results from the O.V.I.S., ask them to list two occupations for each of the three careers in which a person could become competent.	College placement office: Guidance counselors Dictionary of Occupational Titles Occupational Outlook Handbook
	Ask people from industry and from business to cite examples where people have been retrained and are performing in other occupations.	O.V.I.S.
	Have someone from W.I.N., O.W.E., and O.E.O. programs relate experiences where people are performing different occupations from the ones they started.	Industry and business representatives Representatives from W.I.N., O.E.O., O.W.E., etc.
	Have a representative from a giant corporation such as IBM explain the corporation schools and how they retrain people.	IBM Representative
	Take a field trip to a hospital, business, or industry and talk to people who are not working in their original field of study.	Field trips: local hospital, business, or industry

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Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: To develop an awareness of the groups and institutions that influence the nature and structure of a particular career.

Behavioral Objective: The student will be able to list three science related careers and explain some of the groups and institutions which influence them.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have an economics teacher explain to students the impact that consumer demands have on the world of work.	Statistical from LCCC for presentation of graphs, charts, etc.
	Have representatives from unions explain to students what unions do.	People who are presently on strike or who are in the process of making settlements. Example: U.S. Steel
	Have a representative from an advertising firm explain the impact that advertising has on the world of work.	Advertising firms - Lorain Telephone Directory
	Have students do research on the various labor laws and work regulations for different careers.	Dictionary of Occupational Titles Occupational Outlook Handbook Chamber of Commerce Business law instructor from LCCC, Cleveland State, etc.
	Do research or explain the relationship that exists between the government and the world of work.	
	Have students take a field trip to a site where a labor strike is taking place and poll the participants.	
	Have a personnel director explain the purpose of social security cards.	Representative from State Retirement Board or Social Security
	Do research on the effect that war and peace have on the labor force.	School library "U.S. News Weekly" City library "Time"

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Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: To develop an awareness of the groups and institutions that influence the nature and structure of a particular career.

Behavioral Objective: The student will be able to list three science related careers and explain some of the groups and institutions which influence them.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have a speaker from the civil service speak on its importance to the labor force. Have students list some changes made in the labor force over the last ten years and the organizations or institutions that influenced the change.	Post Office Representative Internal Revenue Officer Civil Service Tests Retired or older laborer Occupational Experience Kit

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Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: To develop an awareness that hundreds of industries on the local and national level employ persons in the science fields.

Behavioral Objective: Given a list of science related occupations, students will be able to identify a local industry where these persons might be employed.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have the students make a list of as many science related fields as they can that they have studied in school. Have the students determine which occupations in the above activity are found in the community. After listing community related science fields in the community, students will select three fields they might be interested in. They will do research on these fields. Have oral talks from students about their interest fields. Divide students into small groups of similar interests for student-led discussion. Invite speakers to come in and talk to students about their fields of interest. Take students on a field trip to see people in science related vocations working at their jobs. Example: A visit to a hospital, a health department or water treatment plant.	Science Career Kits Occupational Outlook Handbook Chamber of Commerce Local professional agencies (doctors, medical specialists) City Health Services (sanitation & water treatment) Dictionary of Occupational Titles "The Modern Craftsman" 35mm Filmstrip "A City of Many Things" 35mm Filmstrip American Occupations Series - Tapes Occupational Outlook Handbook Quarterly "Exploring the World of Work" - Cassettes "An Introduction to Vocation" 35mm Filmstrip Vocational Development Grades 7-8-9 - Booklet Chronicle Guidance Library Occupational View Deck "Classroom Journeys" 35mm Filmstrip "Ideas Won't Keep" Slides & Booklet "Career Education" 16mm Film What Do You Like to Do? - Booklet Local telephone directory Local Employment Agencies School Career Education Coordinator Career Orientation Kit

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Concept: Individuals are responsible for their career planning.

Developmental Objective: To develop an awareness of the sources of occupational information.

Behavioral Objective: After an orientation session in the library regarding sources of career information, the student will be able to survey three science occupations in which he is interested.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Take the students to the library and show them where the educational, vocational and guidance resources are and instruct them on their usage. Each student independently researches through the library to discover information which the student believes one should have before selecting specific occupations. Students will listen to peers who have volunteered their services to the school or community and relate this information to future occupational opportunities. Each student selects careers in which he has an interest and evaluates his own abilities in relation to that career interest. The student will have a conference with his science teacher and the guidance counselor for an evaluation of his abilities, as related to continuing his quest for a career in science.	Dictionary of Occupational Titles Occupational Outlook Handbook Chronicle Guidance Library Occupational View Deck Films: "The Library- A Place For Discovery" LCC 16mm B-210 "Libraries are for Sharing" LCCC 16mm AC-265 "Library Organization" 16mm LCCC A-266 "Finding Your Life Work" 16mm LCCC B-136 Ideas Won't Keep (Slide presentation CEP) Career Orientation - Booklet "Worlds Within Worlds" - Slides Work Experience - Booklet What Has to Be Known to Do That? - Booklet Who is That? - Booklet Widening Occupational Role Kit Films: "Junior High-A Time of Change" 16mm AC-249 LCCC "What Will Kevin Do?" 16mm AC-552 LCCC Job Experience Kit Who Are You? - Booklet What Do You Like to Do? - Booklet What Is a Job? - Booklet What Good Is School? - Booklet Occupational View Deck Student Personal Profiles Student Performance Forms Junior Guidance Series Booklet

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Concept: Job characteristics and individuals must be flexible in a changing society.

Developmental Objective: To see that the present and future job market is changing constantly and will continue to do so.

Behavioral Objective: Students will be able to list reasons why jobs change and trends in job changes.

Related Subject Area	Learning Activities	Resources and Materials
Science	Have students interview parents, relatives and friends about their jobs. In particular, they should ask about how many times they have changed jobs and why the change was made. Have students listen to a speaker from an employment agency. Students should ask such questions as: A. What science-related jobs are available within the community? B. What is the outlook of these jobs? C. What are some of the requirements for these jobs? Have students bring in want-ads and discuss their outlook and opportunities. Have them talk about some of the jobs available NOW that were not available ten years ago. Have the students make a list of jobs that are listed most frequently in the want-ads. Visit various industries and have students look for automation within the plant. If possible, talk to an employee who has been with the industry for a number of years, and have him explain to the students how automation has helped the industry.	Occupational Outlook Handbook Dictionary of Occupational Titles So You Want a Job? - Student Handbook "Exploring the World of Work" - Cassettes "Jobs for the 70's" - Slides Curriculum Guide for Career Education People We Know - Booklet Job Experience Kit What is a Job? - Booklet "Worlds Within Worlds" Slides "Tomorrows Jobs," Part I & II - Slides Ohio Bureau of Employment Services Local Employment Agencies Chamber of Commerce Local Business Establishments Local Telephone Directory "Career Education" 35mm Filmstrip American Occupations - Tapes Desk Top Kit Chronicle Guidance Library The Journal (newspaper) "People Who Make a City" 35mm Filmstrip "People of the City" 35mm Filmstrip "Going to See" 35mm Filmstrip

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Concept: Individuals are responsible for their career planning.

Developmental Objective: The student will realize that he is responsible for his career planning.

Behavioral Objective: The student will be able to list the skills and resources which will enable him to independently decide on a particular career.

Related Subject Areas	Learning Activities	Resources and Materials
Science	Have students compile a list of various sources of occupational literature and ways to use them.	Films from LCCC Occupational Outlook Handbook Dictionary of Occupational Titles G.A.T.B.
	Have guidance or career personnel explain the purpose and use of the D.O.T.; O.V.I.S. Science Career Kits; Occupational Handbook and state and private employment agencies.	Guidance or Career Counselors D.O.T., O.V.I.S., Science Career Kits
	Give the students a particular science related career and ask them to make a complete report on the occupation, using materials available in the school.	School library
	Have guidance or career personnel differentiate between academic and vocational curriculums offered at school.	
	Have students prepare papers answering the questions, "Why Attend School?" and "Why Work?"	Curriculum specialist from school system or university
	Have a curriculum specialist from a university or the public school system explain the total educational system as it is today.	
	Have college students in the junior and senior years talk to the students about their responsibility in choosing a career.	College students
	Arrange situations which indicate to the student the importance of his choice and the part this plays in our society.	

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Concept: Job characteristics and individuals must be flexible in a changing society.

Developmental Objective: The student will become aware of the effects of a changing technology and realize that only through flexibility will a worker be able to cope with particular changes.

Behavioral Objective: The student will be able to list three science related careers in which the characteristics of that career have changed and the changes that were made by the worker in order to cope with the changes in his job.

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Related Subject Areas	Learning Activities	Resources and Materials
Science	Have a representative from a state or private employment agency cite job opportunities which have become obsolete.	Employment Agency Representative ie. Ann Sir Employment Service Inc., Elyria Placement Service, Ohio Bureau of Employment Services, Kelly Services, Snelling and Snelling, etc.
	Acquire job listings form an old newspaper. Name those which are no longer offered due to changes in society.	Newspaper micro-film from library or newspaper offices.
	Take a field trip to a computer training center and list the jobs the students are training for.	Computer training center at business college, Lorain High School, IBM
	Arrange a field trip to I.B.M., UNIVAC, or Honeywell and discuss their consumer market and the jobs that go along with the market.	IBM, UNIVAC, Honeywell field trip
	Take a field trip to a business or industry in which automation has taken over tasks which were once done by manpower.	Ohio Edison
	Ask family members if their jobs have changed and why.	Members of the students family Telephone directories Spiegelberg Orchard Elyria Dairy

SOCIAL STUDIES PHILOSOPHY

Throughout the ages man has had to work to support himself and his family. The type of work he has done has changed throughout the ages and still changing today, as advances in technology make some occupations obsolete and creates others. It is, with these things in mind, that we attempt to show the student that work is meaningful, that occupations change, and that the student will soon become involved in the world of work himself.

Since Social Studies run the gamut of all aspects of man's life, both past and present, the incorporation of Career Education can demonstrate the evolution of work from the Stone-Age hunter, through the Colonial craftsman, to the sophisticated worker in Today's modern industrial plant, scientific laboratory, or well-equipped hospital.

It is hoped, that by acquiring a wider knowledge of various occupations, the student will recognize his talents, interests, and abilities, and be able to make an educated and knowledgeable choice of a career that will lead to a rewarding occupation, personal satisfaction, and a meaningful contribution to his society.

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Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: To acquaint the students with careers in politics and government.

Behavioral Objective: Through class discussion and role playing, the student will know how politics affect their daily lives. After researching materials on how a bill becomes a law, the students will have a deeper understanding of the process and be able to create their own bills to have them passed into laws.

Related Subject Areas	Learning Activities	Resources and Materials
Social Studies	Discuss the purpose of the Food and Drug Administration.	Materials from the FDA Books and pamphlets to be used in this unit Your Career in Civil Service Liston 1966 What Your Congressman Does Klapper 1968 What Your U. S. Senator Does Klapper 1968

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Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: To acquaint the students with careers in politics and government.

Behavioral Objective: Through class discussion and role playing, the student will know how politics affect their daily lives. After researching materials on how a bill becomes a law, the students will have a deeper understanding of the process and be able to create their own bills to have them passed into laws.

Related Subject Areas	Learning Activities	Resources and Materials
Social Studies	Discuss in class the basic fundamentals of the American system of government. List the names of the following federal, state, and local elected representatives from your area. A. 2 U. S. Senators B. U. S. Representative C. State Senator D. State Representative E. The Governor F. The Mayor Have the mayor in to speak or ask his office for a list of his duties. Feed back from speech. Students will identify five tasks of the mayor. Students will identify the duties of the various (3) occupations within the Ohio State Legislature. Identify the role of the people. A. How is the Mayor responsible to the people? B. How are Ohio State Legislators responsible to the people?	Textbook: Sources of Identity Pages 48-52 Section - "Man As Policy Maker" Local newspapers and the library Copies of Constitution "Your Bill of Rights" VFW History of Lorain Book Field trip to Ohio State Legislature

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Related Subject Areas	Learning Activities	Resources and Materials
Social Studies	Students will demonstrate an interest in the careers of elective government jobs and/or government jobs on the national level. A. Students will select one of our national political leaders and write a report including: 1. Why he ran for office? 2. His background. 3. His accomplishments.	School and public library
	Role playing situation: Creation of a legislative body. Have students create their own bills and try to have them passed into laws.	Materials on how a bill becomes a law
	The students will demonstrate an interest in politics on the state and local level by doing the following: A. Write a report on local or state leader. B. Learn about the County Sheriff, County Treasurer and City Council.	Field trip to the County Court House and Lorain City Council
	Students will demonstrate an interest in a career in civil service by doing the following activities: A. Discuss the purpose of the Internal Revenue Service.	A visit to the local IRS office

(con't)

Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: To orient the students with the various work forces in the community and their effects on its people.

Behavioral Objective: Through field trips, resource speakers and interviews, the students will understand the problems of an urban environment and help devise skills necessary to solve these problems. Researching labor unions, the students will be able to identify the advantages and/or the disadvantages of labor unions and the major changes in the labor movement over the last decade.

Related Subject Areas	Learning Activites	Resources and Materials
Social Studies	Civil Rights movement. How has the equal rights affected the nature and structure of work?	(How many and in what capacity?) Use of textbook Sources of Identity pages 22-24 Speaker from the NAACP to speak on jobs and Black people in Lorain "Black Political Power" #04002 Speaker from the Spanish community to speak on jobs and Spanish speaking people in Lorain

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Related Subject Areas	Learning Activities	Resources and Materials
Social Studies	Students will identify two major changes in the labor movement over the last several decades and predict changes that may develop in the next several decades.	Future Shock pages 398-428 Cleveland Plain Dealer
	Have students identify the rights of the consumer and how his rights affect the way work is conducted.	Speaker form the Better Business Bureau to explain how consumer rights play a role in the way work is conducted by various businesses. "Consumer Education Series" #13002
	Discuss how problems in an urban environment influence the kinds of skills necessary to solve these problems. A. Various groups 1. Poor people. Identify who helps poor people and what their special skills are. 2. Women's Liberation. Answer the question: How has women's liberation affected the nature and structure of work?	D. O. T. 195.108 Social group workers Field trip to place of employment of a social worker. Field trip to the Lorain County Housing Authority Field trip to an employment agency Use of textbook Sources of Identity pages 54-64 Use survey to see how many businesses employ women.

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Related Subject Areas	Learning Activities	Resources and Materials
Social Studies	Identify the groups and institutions which influence the nature and structure of work in Lorain.	"People of the City" (2FS & Rec.)
	A. Through the use of the Lorain Book, identify the agencies which influence the nature and structure of work. 1. Police and fire protection 2. Street maintenance 3. Water supply 4. City planning 5. Recreation 6. Sanitation services 7. Environmental control	Use of the History of Lorain Book pages 54-87 Dictionary of Occupational Titles
	B. Discuss the nature of the work and services they provide.	
	C. Identify the importance of labor unions in the Lorain community. 1. Invite union representative or labor mediator through Pace to discuss the nature of his work. 2. Through the use of the text discover the history of labor unions in Lorain.	Use the History of Lorain Book Speaker from local 1104 or from the UAW Use of the simulation game strike

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Concept: Individuals are responsible for their career planning.

Developmental Objective: To understand that decision making skills and the ability to take responsibility for one's decisions are vital to career maturity.

Behavioral Objective: Through the use of role playing, interviews and class discussion, the students will be able to select at least three occupations of their choice and give reasons for selecting them. Viewing the filmstrips and films on "Family Problems of Young Teens," the students will be able to define a personal problem and list alternative solutions.

Related Subject Areas	Learning Activities	Resources and Materials
Social Studies	Group work:	
	Name two choices a preschooler might make.	
	Name two choices you made today and one problem you have solved.	
	Name two choices your parents might make.	Parents
	Interview parents. Write results of interview.	
	Role play an adult problem and how it might be solved.	Value Appraisal Scale page 87 in Activities For Succeeding In The World of Work Handbook
	From a series of pictures, illustrate human situations, suggest one personal problem found in each.	Lorain Journal Magazines Posters
	Teacher writes open-ended story and has student complete the story.	
	List factors involved in personal decisions. A. Attitudes B. Values C. Interests D. Activities E. Liabilities	Textbook: Sources of Identity pages 46-47 Psychology section

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Related Subject Areas	Learning Activities	Resources and Materials
Social Studies	Have students list what occupations each is considering and give three reasons for selecting them. Do these reasons involve personal feelings and abilities?	
	Have students react to problem situations.	
	Have students research and develop a list of laws which affect teen-agers. Discuss: A. Which laws teen-agers are most likely to break? B. Why the laws were made? C. What consequences result from breaking these laws?	Index of Lorain City Ordinances
	Predict the effect on an individual, his family, his friends, and his country if he participates in a civil protest.	Struggle for a Nation's Conscience AEP Unit Books "The Bus Boycott" pages 23-27 "The Freedom Riders" pages 29-33
	Discuss group work reactions from the students about basic problems in the school.	
	Define a problem of "Group Relations" in your school. List alternatives available for solving the problem.	

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Related Subject Areas	Learning Activites	Resources and Materials
Social Studies	A. Fights B. Study Halls C. Human Relations between white and black students	
	Define a personal problem and list alternative solutions. A. Lack of communications with parents.	SVE Filmstrip "Family Problems of Young Teens" F786SAR
	Define a community problem and identify alternative solutions. A. Water & sewer rates B. High rise apartments for the elderly C. Space for parks	Lorain Journal
	Present five problems common today to adolescents.	Films: "You and Your Problems" 5-738 "Your Problem: How to Handle Them" 51028
	Show conflict between an adolescent's need for independence and his need for dependence.	Overhead series "The Creative Arts"
	State both adolescent's and his parents' point of view.	"Getting Along With Parents" 5-1087
	Plan a two week family vacation in your state. Develop a budget of not more than $500. Have students make decisions concerning methods of transportation, reservations, etc.	

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Related Subject Areas	Learning Activities	Resources and Materials
Social Studies	Let classroom duties be carried out by students, assigning seats, making bulletin boards. Assign duties and then let the students execute. Have students respond to the classroom duties.	SVE Filmstrip "Learning to Make Decisions" (Life Issues, F792)

Concept: An understanding and acceptance of self is important throughout life.

Developmental Objective: To develop an awareness of the effect of self-sufficiency upon the way of life.

Behavioral Objective: Given an interview and rating scale by the instructor, the student will be able to determine his performance level and his level of comprehension.

Related Subject Areas	Learning Activities	Resources and Materials
U. S. History	Have students form groups. Discuss and prepare a list of ways man has become self-sufficient. Research information concerning the "War on Poverty Program" of the 1960's. A. List reasons why there was no such program during colonial times, and how colonists could have benefited from such a program. Give students the opportunity to relate their observations about life today, to similar observations about aristocrats and colonists becoming self-sufficient in the English Colonies during the 1700's. Have students identify values and attitudes held by students of today, which date back to colonial times. Have students present significant observations about his personality and life style. Relate these observations to possible choices of career and leisure time activities. Have each group use a rating scale set up for group evaluation.	Reference books

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Concept: Persons need to be recognized as having dignity and worth.

Developmental Objective: To develop an awareness of the contributions immigrants have made to our economy.

Behavioral Objective: Given a specific nationality, the student will be be able to distinguish that nationality or heritage does not limit or guarantee success in a democratic society.

Related Subject Areas	Learning Activities	Resources and Materials
U. S. History	Divide students into research groups. Have students report on the type of work available for immigrants in our community. Have students report to their classmates about the contributions immigrants have made to our country. Have students perform role playing activites concerning the social problems confronted by immigrants new to this land during the various phases of history. Compare these problems with the various work ethics formulated during these periods of history. Ask students to interview immigrants in their immediate neighborhoods on problems confronting them in career opportunities in the city.	Film: C159, "The Innocent Years" Library resource materials Career Kits

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Concept: Occupations exist for a purpose.

Developmental Objective: To develop an awareness of the occupational areas that have played a major role in the formation of our government.

Behavioral Objective: Given a list of occupational areas, the student will be able to describe the role each area has played in the formation of our government.

Related Subject Areas	Learning Activities	Resources and Materials
U. S. History	Have students form into groups to research the occupations of men who participated in the Constitutional Convention. Have students report these findings to the class. Ask students to compare and contrast these occupations with occupations of the men who hold similar government positions today. Identify the occupational clusters that each of these men work in. Have students list at least 15 occupational areas that have had a part in the formation of our government. Have students create a "Wheel of Fortune" on which events might change the way our government and occupational growth might change. Have students lists ways in which an imaginary individual could have changed their earlier plan of an occupational choice in order to prepare for unpredictable events in the future.	Library resource materials: Encyclopedia Bibliographies World Almanac Film: "Ben Franklin" B-144 "Colonial Life in the Middle Colonies" A-628 "Colonial Life in the South" A- 628 "George Washington" B-364

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Concept: Job characteristics and individuals must be flexible in a changing society.

Developmental Objective: To develop an awareness that various sections of the country complement another and add to the standard of living, because each produces different products and services.

Behavioral Objective: Given a specific occupational region, the student will be able to indicate numerous ways in which changing demands for goods and services affect careers.

Related Subject Areas	Learning Activities	Resources and Materials
U. S. History	Assign individual or groups of students to explore complementary occupations which are interrelated through the economic principle of supply and demand. Have students prepare and present written reports to the class concerning regional occupational interdependence. Have the students work as individuals or groups to explore alternate careers for people in obsolete occupations. Identify skills and abilities that these individuals have that may carry over into related careers.	Film: CC-65 "Alaskan Eskimo" Film: BC-17 "Alaska-America's Northern Frontier" Film: BC-69 "The Central Farming Region" Films: B-87 "Climates of North America" B-96 "The Corn Farmer" B-97 "The Cotton Farmer" B-99 "The Dairy Farmer" Career Kits Maps Globes

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Concept: Individuals are responsible for their career planning.

Developmental Objective: To develop an awareness of a variety of considerations involved in choosing a career.

Behavioral Objective: The student will present, to the class, a case study about current news events and how they are related to career planning.

Related Subject Areas	Learning Activities	Resources and Materials
U. S. History	Have pupils examine the newspapers and follow the progress of a current news topic. They will relate this to similar historic incidents relevant to career planning.	Film: B-297 "Growth of Big Business in America"
	Have students research the occupational articles from the business section of the newspaper. Have students develop skills in career planning by forecasting the occupational future of the jobs that they are reading about.	The Journal The Plain Dealer "Living Textbook Program"
	Divide class into groups to compile scrapbooks on various occupational news items.	
	Have student keep a career planning log. (Teacher will evaluate the log.)	Materials for: Scrapbooks Career log

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Concept: Job specialization creates interdependency.

Developmental Objective: To develop an awareness that every person in the world of work is dependent upon someone else.

Behavioral Objective: Through class discussion, students will be able to role play problem situations that arise in a factory where a person does not adequately perform his duties.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Africa, the Aztecs, Incas, and Indians of North America. Discuss how various societies , especially the above, divide labor. Do we do anything like this today? Visit a factory and have the students see how labor is divided and how the finished product is based on the interdependency of all the workers. Have a socio-drama in class letting students act out the different parts of labor, management and interdependence of various industries.	Film: "African Continent: An Introduction" SC Film: "The Aztecs" - SC Film: "The Incas" - SC Film: "The Indians of Early America" - SC

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Concept: Various groups and institutions influence the nature and structure of work.

Developmental Objective: The student will be able to understand that only recently has man had the opportunity to decide his own choice of occupations.

Behavioral Objective: Given a comparison of early American society (in which slavery was evident) and society today, the students will cite areas in which job discrimination or de facto slavery still exist.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Slavery Have the students study slavery from the following standpoints: A. What occupations did slaves have? What work did they do for their owners? What treatment did they receive? What punishment? B. Does slavery exist today? Where? Compare the struggle of the early labor movement with the slave revolts of past history. Discuss similarities and differences. Suggested areas: A. How the use of slaves by Greeks hindered even greater advances of their civilization? B. How Greeks were used as slaves by the Romans? C. The Spartacus Revolt. D. Slavery in the United States. What work did slaves perform? E. The struggle of organized labor. 1. AF of L-CIO 2. Socialist Movement. Panel discussion of the unit video taped for evaluation and possible future use.	Book: Slavery From Ancient Times to the Renaissance - AK Book: Slavery From the Renaissance to Modern Times Book: The Making of The Negro - AK Book: Sins of the Father - AK Book: Before the Mayflower - AK

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Concept: Job characteristics and individuals must be flexible in a changing society.

Developmental Objective: To develop an awareness of how careers have developed through the ages.

Behavioral Objective: Given a list of occupations, the student will select one for an in-depth historical study of its development.

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Related Subject Areas	Learning Activities	Resources and Materials
World History	Discuss Anthropologists and what they do.	Books: Digging Up Adam, S. B. Leaky
	Compare the primitive people of a country and their similarities and differences to todays' society.	"National Geographic"
	Discuss how an anthropologist's work can help us understand ourselves.	
	Discuss mummification in ancient Egypt and different concepts of death. A. Go to a local funeral home to see how embalming is done today. B. Investigate the career of a funeral director. C. Have students do a study of our attitudes toward death compared with those of other societies.	Field trip - Local funeral home Career Kit Occupational View Deck Occupational Outlook Handbook
	Discuss Hieroglyphics as a language and as an art. A. Investigate the career of a translator. B. Investigate the career of an artist.	Books on: Egypt Hieroglyphics Chronicle Guidance File
	Have students investigate various other occupations and their development.	Film: "Ancient Greece"
	Discuss the above occupations and the basic knowledge required in the past that is still basic today.	Book: Poetics, Aristotle

Concept: Education and work are interrelated.

Developmental Objective: To develop an awareness of the historical methods of training necessary for various careers.

Behavioral Objective: Given a choice of three occupations in which he is interested, the student will outline the qualifications and training necessary to perform the job.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Have students do a study of how continued education is necessary in all careers. Give an objective test to see what learning outcomes have been achieved.	

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Concept: Education and work are interrelated.

Developmental Objective: To develop an awareness of the historical methods of training necessary for various careers.

Behavioral Objective: Given a choice of three occupations in which he is interested, the student will outline the qualifications and training necessary to perform the job.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Have the students do a short paper on the training programs of the medieval guilds: A. apprenticeship B. journeyman C. master What study or work did each level require? Is this system still used by today's unions? If so, how do they differ from the medieval guilds. Have a craft union offical in to explain the union organizations. What careers need extensive training or education? A. physician B. surgeon, especially one who specializes. C. lawyer D. pharmacist E. jeweler What careers can be achieved with 2 year college or less? A. medical technician B. computer programmer C. barber - cosmotologist D. dental technician (con't)	Film: "Medieval Guilds" - SC

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Concept: Occupations exist for a purpose.

Developmental Objective: To develop an awareness of the occupations involved in building and maintaining our cities.

Behavioral Objective: Given a list of occcupations related to the building and maintenance of cities, the student will survey three occupations in which he is interested. These surveys will bocome part of the students notebook.

Related Subject Areas	Learning Activities	Resources and Materials
World History	B. Discuss qualifications and education necessary for these occupations. C. Discuss the historical development of the occupations listed above. Have the student keep a notebook of the information on various careers.	

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Related Subject Areas	Learning Activities	Resources and Materials
World History	Growth of the City A. For what reasons did the city develop? B. How are cities planned? Have a city planner discuss the talents that are necessary for his career. Discuss careers related to city building. A. construction worker B. bricklayer C. carpenter D. welder E. plumber F. architect G. draftsman H. lumber dealer I. logger J. steel worker K. engineer L. electrician Discuss what materials have been used in building cities through the ages. A. What new materials are being used today? B. What occupations are related to the production and use of these materials? Visit a construction site. A. List the number of different occupations observed.	Filmstrip record set: "The Changing City" - AK Career Kits Resource speaker Occupation Outlook Handbook Consult appended bibliography of career books Field trip

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Concept: Work means different things to different people.

Developmental Objective: To develop an awareness that there are many different ways to define work.

Behavioral Objective: After discussing and researching the democratic and communist governmental systems, the student will be able to compare the role of the worker in each system.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Communism and Socialism and the working man. A. Study how attitudes differ toward work in our country and communist countries, especially in regard to women working.	Film: "Soviet Challenge: The Industrial Revolution in Russia" - SC Magazine articles on women's equality
	World Wars, Korea, Vietnam A. Have the students investigate what occupations are needed in the military, what training is available, and the military as a career.	Occupational handbooks of the military services Recruiting officers of the military services
	The Growth of Leisure in The Working Class Provides new careers and occupations. A. Have the students conduct a panel discussion on those careers that provide entertainment for the working man: 1. Theatre, actor, director 2. Professional sports 3. Musician 4. Movie house owner 5. Restaurant owner	Resource speakers
	Test Give written test on the chapter.	

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Concept: Occupational supply and demand has an impact on career planning.

Developmental Objective: To develop an awareness of how demand for certain occupations has changed throughout the ages.

Behavioral Objective: Given a list of occupations, the students will investigate 10 occupations from the O. O. H. and rank them according to the number of projected workers needed.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Oversupply of Labor A. Have students investigate oversaturated areas. 1. teaching 2. aerospace 3. others B. Are there any other ways these talents could be used? Test Administer sentence completion test on unit.	Magazines: Time, Newsweek, Business Week

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Concept: Environment and individual potential interact to influence career development.

Developmental Objective: To develop an awareness that there are many new careers linked to the changing environment.

Behavioral Objective: Given a list of occupations related to pollution control, the student will research one occupation and report his findings to the class.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Have the students do a report on the evolution of some scientific occupations. Each student can choose a different area. Some examples of careers in science are: biologist botanist bacteriologist	Science Career Kit Chronicle Guidance Career Information Series
	Have the students find what resources are most important today. How they are found and what careers are related to them. Some suggested careers: geologist astronaut oceanographer miner heavy equipment operator surveyor mineralogist Other careers that involve the environment and present day life: forester ecologist naturalist	Newspapers Periodicals Career Kits Occupational Outlook Handbook
	Have the students suggest other careers that involve working with, improving, or changing our environment.	
	Have each student keep a notebook of the information they have found on scientific careers. Add information from class reports.	

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Concept: Occupational supply and demand has an impact on career planning.

Developmental Objective: To develop an awareness of how demand for certain occupations has changed throughout the ages.

Behavioral Objective: Given a list of occupations, the students will investigate 10 occupations from the O. O. H. and rank them according to the number of projected workers needed.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Rise of Commercialism A. Study how new products come into being. B. Have a representative of a manufacturer explain how they develop new products and the career opportunities involved.	Resource speaker
	Industrial Revolution A. Discuss how machines replaced hand produced goods and what items are still hand produced. B. Research the new careers of business executive, economist, banker, and stockbroker. C. Invite resource people in these areas to speak on qualifications.	Greenfield Village Tour Film: "Competition and Business" - SC Film: "How Banks Serve" - SC Resource people
	Second Industrial Revolution A. Discuss new jobs created by advanced technology: telephone operator assembly-line aircraft industry automobile industry processed food industry space industry chemistry of new fibers B. Have the students find what job positions are available in these industries.	Film: "Meat from Ranch to Market" - SC Occupational View Deck Occupational Outlook Handbook Career Kits Occupational Book (see appended bibliography)

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Concept: Persons need to be recognized as having dignity and worth.

Developmental Objective: To promote an understanding that all work has value.

Behavioral Objective: Given examples of job classifications, the student will select one occupation from each cluster and tell why a person might select it as a life's work.

Related Subject Areas	Learning Activities	Resources and Materials
World History	Discuss India-Caste System A. Have students list a number of skilled as well as unskilled occupations: then have them tell which are the least and most desirable and why. B. Do we have a caste system in employment today? Suggested areas: by sex race occupation C. Develop a scale of attitudes toward various occupations. 1. Discuss reasons for varying attitudes toward occupations. Example: very important important of little importance	Film: "India - An Introduction to its History" - SC Occupational Clusters

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Lorain City Schools

CAREER EDUCATION

LORAIN, OHIO

orientation exploration

supplementary

orientation exploration

Secondary Curriculum Guide

orientation exploration

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orientation exploration

orientation exploration

CAREER EDUCATION

ORIENTATION

AND

EXPLORATION

SUPPLEMENTARY CURRICULUM GUIDE

(7-10)

LORAIN CITY SCHOOLS LORAIN, OHIO

SEPTEMBER 1974

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TABLE OF CONTENTS

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PAGE

FOREWORD i

TEACHER LISTING ii

CAREER DEVELOPMENT CONCEPTS iii

CONCEPT

OCCUPATIONS EXIST FOR A PURPOSE 1
Art 7-8

OCCUPATIONS EXIST FOR A PURPOSE 2
English
Math
Business 7-8
Social Studies

EDUCATION AND WORK ARE INTERRELATED 3
French 7-8

JOB SPECIALIZATION CREATES INTERDEPENDENCY 4
Home Economics 7-8

OCCUPATIONS AND LIFE STYLES ARE INTERRELATED 5
Math 7-8

EDUCATION AND WORK ARE INTERRELATED 6
Math 7-8

EDUCATION AND WORK ARE INTERRELATED 7
Science 7-8

JOB CHARACTERISTICS AND INDIVIDUALS MUST BE FLEXIBLE IN A CHANGING SOCIETY 10
Science 7-8

OCCUPATIONS EXIST FOR A PURPOSE 11
Science 7-8

OCCUPATIONAL SUPPLY AND DEMAND HAS AN IMPACT ON CAREER PLANNING 14
Science 7-8

EDUCATION AND WORK ARE INTERRELATED 16
Science 7-8

CAREER DEVELOPMENT REQUIRES A CONTINUOUS AND SEQUENTIAL SERIES OF CHOICES 18
English 9-10

INDIVIDUALS CAN LEARN TO PERFORM ADEQUATELY IN A VARIETY OF FOOD SERVICE OCCUPATIONS 20
Home Economics 9-10

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TABLE OF CONTENTS

(CONTINUED)

CONCEPT	PAGE
JOB SPECIALIZATION CREATES INTERDEPENDENCE Library Science 9-10	22
INDIVIDUALS DIFFER IN THEIR INTERESTS ABILITIES ATTITUDES AND VALUES Music 9-12	23
THE INDIVIDUAL IS RESPONSIBLE FOR THEIR CAREER PLANNING Office Practice 9-10	24
EDUCATION AND WORK ARE INTERRELATED Pre-Algebra 9-10	25
OCCUPATIONS EXIST FOR A PURPOSE Science 9-10	26
EDUCATION AND WORK ARE INTERRELATED Science 9-10	27
INDIVIDUALS DIFFER IN THEIR INTERESTS ABILITIES ATTITUDES AND VALUES Science 9-10	28
INDIVIDUALS ARE RESPONSIBLE FOR THEIR CAREER PLANNING Special Education Secondary	30

FOREWORD

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In order for Career Education to succeed, it is necessary to provide teachers with an opportunity to explore the concept and understand how they might apply this concept to their own classroom situations.

In the Spring of 1974, it was decided to pilot a workshop format that would include the following elements.

1. Review of Career Education Rationale.

2. Familiarization of Career Education concepts and examples of possible classroom activities.

3. Pre-planning with the assistance of Career Education Personnel.

4. Experimentation with Career Education concepts and activities in the classroom over a three week period.

5. A final session during which teachers would report the results of their experiences to the group and evaluate what they had accomplished.

It was found that, as a result of the workshop, the teachers involved, had gained a clear understanding of how they might apply Career Education concepts and activities in their classroom situations. The teachers also expressed the view that they were prepared to plan such activities on a continuous basis.

The lesson plans included in this Supplementary Guide were those planned and tried in the classroom over the period of experimentation.

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APPRECIATION IS EXPRESSED TO THE FOLLOWING PERSONS FOR CONTRIBUTING MATERIAL TO BE INCLUDED IN THE LORAIN CITY SCHOOLS, CAREER EDUCATION SUPPLEMENTARY SECONDARY CURRICULUM GUIDE.

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Edith Fearer	Admiral King High School	Math
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Marika Hatzinas	Hawthorne Junior High School	Foreign Language
Jeanne Junker	Admiral King High School	English
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Gerald Ledbetter	Hawthorne Junior High School	Math
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CAREER DEVELOPMENT CONCEPTS SEQUENCE

1. An understanding and acceptance of self is important throughout life.

2. Persons need to be recognized as having dignity and worth.

3. Occupations exist for a purpose.

4. There is a wide variety of careers which may be classified in several ways.

5. Work means different things to different people.

6. Education and work are interrelated.

7. Individuals differ in their interests, abilities, attitudes, and values.

8. Occupational supply and demand has an impact on career planning.

9. Job specialization creates interdependency.

10. Environment and individual potential interact to influence career development.

11. Occupations and life styles are interrelated.

12. Individuals can learn to perform adequately in a variety of occupations.

13. Career development requires a continuous and sequential series of choices.

14. Various groups and institutions influence the nature and structure of work.

15. Individuals are responsible for their career planning.

16. Job characteristics and individuals must be flexible in a changing society.

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Concept:	Occupations exist for a purpose.
Developmental Objective:	To develop an awareness of the importance of advertising and commercial art.
Behavioral Objective:	The student will be able to create advertisements designed to sell or promote a product.

Related Subject Areas	Learning Activities	Resources & Materials
Art 7-8	Discussion of color concepts, design, placement of subject matter in regards to effectively reproducing an advertisement.	Examples of package design.
	Discussion of importance of various advertising personnel in marketing a product.	Newspaper ad layouts. Yellow Pages.
	A. Artist (commercial)	Television Commercials.
	B. Letterers	
	C. Design and layout personnel	
	D. Market research personnel	
	E. Account executives	
	Using the format of the yellow pages, students construct their own advertisements for a chosen company, product, or service.	

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Concept:	Occupations exist for a purpose.
Developmental Objective:	Students will become conscious of what is involved in legislation and law enforcement, realty, financing, and social welfare.
Behavioral Objective:	At the conclusion of this activity, students will have a broad knowledge of various occupations found within the game of Monopoly.

Related Subject Areas	Learning Activities	Resources & Materials
English Math Business Social Studies 7-8	Students are divided into groups. Each group plays Monopoly. One student from each group makes notes of transactions which took place in each game--going to jail, buying real estate, contributing to social agencies.	Monopoly Game.
		Trouble Shooters Series #7 Book Bank Forms.
	Transactions are used later as lessons for activities.	Employees from any welfare agency or community service. I.E. Policeman Realtor Attorney
	Activities:	
	Business letter writing--filling out forms. (job application, bank deposit, and withdrawal, social security, postal, etc.)	Field trips to Bank and Court.
	Vocabulary--(that common to jobs investigated and on forms).	Films: "Competition and Big Business," B-92 LCCC
	Special reports on occupations.	"Money Talks," A321 LCCC

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Concept:	Education and work are interrelated.
Developmental Objective:	To develop, through role play, an awareness of language skills necessary to work in a French restaurant.
Behavioral Objective:	Given a series of activities, the students will demonstrate a practical application of the French language.

Related Subject Areas	Learning Activities	Resources & Materials
French 7-8	After showing students examples of menus, they will develop full menus, including items for breakfast, lunch, and dinner. Begin work in class by having students develop menu-cover designs from cut paper or other materials. Provide students with list of possible cover ideas or suggestions on chalkboard. Menu items can now be developed from sample menus or from magazines. If students wish, the items can be typed. Utilizing menus, students take turns being waiters, waitresses and customers. To reinforce vocabulary and expressions, you can set place settings with certain utensils missing, so the students need to ask for them properly. This exercise can also be used to reinforce time and clock vocabulary.	

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Concept:	Job specialization creates interdependency.
Developmental Objective:	To develop student awareness in the many kinds of jobs related to restaurant management.
Behavioral Objective:	Following role playing situations, the students will have a working knowledge of necessary skills and traits related to the various phases of hospitality and restaurant work.

Related Subject Areas	Learning Activities	Resources & Materials
Home Economics 7-8	Have students discuss and decide on the type of restaurant they would like to establish and run.	Personal knowledge gained through job experience.
	Have the students develop menu items they would like to serve. This could be limited to two or three dishes.	
	Have students select recipes.	
	Prepare, along with students, the market order, and figure costs of needed items.	Grocery check list for actual prices.
	Have students design and write actual menus.	
	Establish with students, prices of menu items considering costs of ingredients and salaries.	
	Arrange for an outside speaker to discuss proper dress, grooming, table service, etiquette, and table setting.	Resource Speaker.
	Develop work distribution with students. Establish each students' role in a restaurant.	
	Simulate, role-play, and operate an actual restaurant facility.	Tax Table, customer checks, "money."

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Concept: Occupations and life styles are interrelated.

Developmental Objective: To develop an awareness of percents and their relationship to employment and everyday living.

Behavioral Objective: Given research and role playing, the student will be able to use the skills involved in the topic of percents and discuss the relationships between percents and everyday living.

Related Subject Area	Learning Activities	Resources & Materials
Math 7-8	Have students role-play roles of salesman and purchaser. Compute: (1) % discount for employees. (2) % discount for sales. (3) Sales Tax (4) Commission Ask students to collect sales ads from newspapers. Show how to figure price percent "off" vs percent "cost."	Textbook DOT Job Exploration Kit Sales Tax Schedule Newspapers Film: "Meaning Of Percentage." A-305 LCCC

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Concept:	Education and work are interrelated.
Developmental Objective:	To develop an awareness of math related jobs found within the community.
Behavioral Objective:	Given an opportunity to explore various careers, the students will be able to tell or write about the extent math is utilized in several jobs of interest to him.

Related Subject Areas	Learning Activities	Resources & Materials
Math 7-8	Students construct large bulletin display depicting stores. Banks, factories, hospitals, industries, and construction sites.	Employment Information Series Bureau of Employment Services State of Ohio; Career Briefs.
	Students discuss each facility and some of the math related jobs found within.	California Occupational Guide; Career Briefs.
	Students equipped with tape recorders, cameras and note pads will communicate with, and interview persons employed in various math related jobs found within the community.	

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Concept: Education and work are related.

Developmental Objective: The students will gain an understanding of science related careers which directly effect ecology and environment.

Behavioral Objective: After a series of activities, the student will be able to discuss the importance of the study and research in regards to careers safeguarding environment.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	Introductory topics for discussion:	
	A. The meaning of ecology.	City Iron and Waste Paper Company.
	B. Ways in which man has upset nature's balance.	Cleveland Electrical Illuminating Company.
	C. Ways in which man has had an impact on his environment in the students' own community.	Cleveland Metropolitan Park.
		Lewis Research Center.
	D. Ways in which man is trying to restore nature.	NASA.
		Lorain Board of Health.
	E. Ways in which we, as individuals, can help to, at least, slow down the destruction of the environment.	Lorain Sewage Treatment Plant.
		Lorain Water Treatment Plant.
	Form student study committees to determine science related careers found within each of the following areas:	U. S. Steel.
		Ohio Edison.
		Oberlin College.
	A. Air Pollution Control	
	B. Water Pollution Control	

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Concept:	Education and work are related.
Developmental Objective:	The students will gain an understanding of science related careers which directly effect ecology and environment.
Behavioral Objective:	After a series of activities, the student will be able to discuss the importance of the study and research in regards to careers safeguarding environment.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	C. Land Pollution Control	Science Career Kits, Films and Cassettes.
	D. Natural Resources	
	E. Recycle	O.O.H.
		A trip to an electrical power plant (record).
	Students conduct community surveys of individuals working in careers related to ecology.	A trip to a sewage treatment plant (record).
	Contact authorities responsible for environmental safe keeping.	The Roots Of Our Urban Problems (cassettes).
	Schedule mini field trips to sites in which science related careers are enlisted to safeguard the environment.	The Air Pollution Menace (cassettes).
		Water Pollution--A Complex Problem (cassette).
		People Who Work In Science (cassette).
		Careers In Science (filmstrip).

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Concept:	Education and work are related.
Developmental Objective:	The students will gain an understanding of science related careers which directly effect ecology and environment.
Behavioral Objective:	After a series of activities, the student will be able to discuss the importance of the study and research in regards to careers safeguarding environment.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	Students involved in mini field trips report their career surveys as well as information dealing with the ecological impact of the occupations utilizing: A. A slide presentation with narration on tape of their mini field trip. B. A research paper on their particular area. C. A speaker from their area. Follow up with a student evaluation of the project.	

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Concept:	Job characteristics and individuals must be flexible in a changing society.
Developmental Objective:	To develop a broader knowledge that jobs are modified, eliminated, or created by technological change.
Behavioral Objective:	Given a series of activities, the students will be able to discuss or write about future careers possible, brought about by vast technological change.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	Students are shown film depicting rapid societal and technological change. Following a preview of the film, there should be a discussion. Futuristic science-based technological developments which could affect their lives.	"Future Shock." Film.
	Discussion of list of think tank predictions for year 2000.	Use of textbook. Think Tanks.
	Following discussion, students write daily logs, newspaper accounts, stories, science fiction articles, or do artwork to show effects of further future technology on their lives in regards to travel modes, learning environments, population, housing, leisure, careers, etc.	
	Students discuss or write about careers they feel will develop as they direct their attention to future technology.	

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Concept:	Occupations exist for a purpose.
Developmental Objective:	To develop an awareness of careers related to life science.
Behavioral Objective:	Given a series of exploratory activities, the students will be able to tell how a knowledge of genetics and heredity relate to occupations in the life sciences.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	Discussion of people and careers in science, related to environment with an emphasis on the topic being studied.	Dictionary of Occupational Titles. Exploring The World Of Work (cassette). People Who Work In Science (cassette). Keys Career Exploration Kit (cassette).
	Genetics and Heredity. A. Hatcheries B. Nurseries C. Nature Preserves	
	Invite speakers from one of the following occupations: A. Forest Service B. Park Warden C. Hatchery D. Nursery	Resource speakers from related fields.

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Concept:	Occupations exist for a purpose.
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Behavioral Objective:	Given a series of exploratory activities, the students will be able to tell how a knowledge of genetics and heredity relate to occupations in the life sciences.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	Development of written guides that contain what to look for on a field trip using student suggestions. Field trip is organized to one of the following places: A. Hatchery B. Nursery C. Nature Preserve	

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Concept:	Occupations exist for a purpose
Developmental Objective:	To develop an awareness of careers related to life science.
Behavioral Objective:	Given a series of exploratory activities, the students will be able to tell how a knowledge of genetics and heredity relate to occupations in the life sciences.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	Students review information compiled on the field experience observations. A. Pictures (polaroid standard). B. Tape recordings. C. Observations in guide. D. Things collected: 1. Specimens 2. Pamphlets 3. Samples	

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Concept: Occupational supply and demand has an impact on career planning.

Developmental Objective: To develop an awareness that there are many careers related to plants and their products.

Behavioral Objective: The students will be able to name fifteen careers within industries that rely on plants.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	Have students name industries that rely on plants.	
	A. Wood Industry	Careerdex.
	B. Food Manufacturing Industry	Library.
	C. Manufacturing Industry (furniture)	
	D. Agri-business	O.O.H.
		D.O.T.
	Have students list careers within some of the career clusters that would relate directly to plants.	
	A. Discuss availability of such careers.	Exploring The World Of Work (see Resource Guide).
	B. List entry level positions.	Science Career Kit.
	C. Discuss education and training needed for various occupations.	

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Concept:	Occupational supply and demand has an impact on career planning.
Developmental Objective:	To develop an awareness that there are many careers related to plants and their products.
Behavioral Objective:	The students will be able to name fifteen careers within industries that rely on plants.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	Discuss conservation of plant resources and how this might affect occupational supply and demand.	
	Have students do reports on careers in the industries that use plants as they relate to their interests.	
	Have students write to various companies requesting career information relating to occupations which involve plants and plant products.	

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Concept:	Education and work are interrelated.
Developmental Objective:	Through "junior engineering," the students will develop an awareness of the many careers related to the aerospace industry.
Behavioral Objective:	Given a series of activities, the students will be able to discuss the importance of the study of science in relation to careers found within the aerospace industry.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	The use of model rocketry is a natural offspring of space technology that can be used to arouse student interest in science related careers, found within the aerospace industry.	
	Before building rockets, explore, with the students, the function and meaning of the following terms: designing, engineering, aeronautics, research, technician, technology. Relate these terms to the construction procedures of a model rocket.	Project listed in The World Of Manufacturing Textbook.
	After flight testing models, relate both construction and flight procedures to careers found in the aerospace industry:	Science Career Kits. Career-dex. D.O.T. O.O.H. People Who Work In Science (filmstrip & cassettes).

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Concept: Education and work are interrelated.

Developmental Objective: Through "junior engineering," the students will develop an awareness of the many careers related to the aerospace industry.

Behavioral Objective: Given a series of activities, the students will be able to discuss the importance of the study of science in relation to careers found within the aerospace industry.

Related Subject Areas	Learning Activities	Resources & Materials
Science 7-8	A. Aeronautical Draftsman	
	B. Astronomer	
	C. Navigation	
	D. Systems Analysis	
	E. Aerospace Engineering Technician	
	F. Power Systems Specialist	
	G. Chemist	
	H. Ceramics Engineer	
	I. Electrical Engineer	
	J. Mechanical Engineer	
	K. Instrumentation Technician	
	L. Metallurgical Engineer	
	M. Physicist	
	N. Technical Illustration	
	O. Computer Technician	
	Have students survey and report on various careers in which they are interested.	

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Concept:	Career development requires a continuous and sequential series of choices.
Developmental Objective:	To develop an awareness of career possibilities related to the student's individual interests.
Behavioral Objective:	Given an opportunity to explore careers related to the student's interests, they will write a research paper that would analyze one or more occupations within a career cluster.

Related Subject Areas	Learning Activities	Resources & Materials
English 9-10	The students will be given a handout covering the elements of writing a research paper.	O.E.K. Kit. S.R.A. Kit. Books.
	The students will visit the library and will be given an introduction to the materials relating to Career Education.	Vocational Biographies. Careerdex. D.O.T. Chronicle Guidance Kit.
	A. Books B. Files C. Career kits D. College catalogs E. Visuals	

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Concept:	Career development requires a continuous and sequential series of choices.
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Behavioral Objective:	Given an opportunity to explore careers related to the student's interests, they will write a research paper that would analyze one or more occupations within a career cluster.

Related Subject Areas	Learning Activities	Resources & Materials
English 9-10	Have students explore career materials related to their interests. A. Take notes. B. Make a list of resources. C. Make a list of places or organizations where additional information may be obtained. Have the guidance counselor speak to the class concerning aptitudes. Have a discussion concerning the idea that individuals can perform a variety of occupations. Have students estimate their potential for success in the careers that interest them.	

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Concept:	Individuals can learn to perform adequately in a variety of food service occupations.
Developmental Objective:	To develop an awareness of food service careers.
Behavioral Objective:	Given a series of activities, the students will be able to identify and discuss food service careers available to them.

Related Subject Areas	Learning Activities	Resources & Materials
Home Economics 9-10	Table setting at a restaurant.	Service Is An Honorable Profession - Solomon.
	A. Teacher demonstration.	
	B. Student simulation using different menus.	
		Meal Management-Kinder.
	Give a worksheet on tipping, using percents.	
		Menus.
	Table setting by groups composing a basic four meal. Correct procedures as necessary.	
	Simulation: Taking orders on guest checks using sample menus from local restaurants.	
	Give a worksheet on figuring taxes.	

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Concept:	Individuals can learn to perform adequately in a variety of food service occupations.
Developmental Objective:	To develop an awareness of food service careers.
Behavioral Objective:	Given a series of activities, the students will be able to identify and discuss food service careers available to them.

Related Subject Areas	Learning Activities	Resources & Materials
Home Economics 9-10	Completion of orders taken by members of the groups to include addition, taxes, total and usual tip. Role play various situations when working as a waitress such as spilling coffee, waitress improperly dressed, waitress displaying undesirable personality characteristics. In a group setting, discuss other careers in food service.	

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Concept:	Job specialization creates interdependency.
Developmental Objective:	To develop an awareness that library science can be applied to work in many different fields.
Behavioral Objective:	Given a review of the many library fields, the student will be able to relate his interest in careers to a particular library field.

Related Subject Areas	Learning Activities	Resources & Materials
Library Science 9-10	Discuss with students interested in library science how their interest relates to occupations in the field.	Lorain Public Library Oberlin Conservatory (music library)
	Discuss with students how they might prepare for work in the field of library science.	Allen Art Museum (art) Lorain Community Hospital (medical library)
	Take field trips to a library or libraries that are specialized to show students how their interest applies to these situations.	United States Steel (industry)
	Discuss job analysis for each of the special library fields.	

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Concept:	Individuals differ in their interests, abilities, attitudes, and values.
Developmental Objective:	To develop an awareness that music can be vocational, or avocational and that music is an important element in our culture.
Behavioral Objective:	Given a concert by an orchestra, third and fourth grade students would: understand the career aspects of music learn the different sounds of the instruments develop an appreciation of orchestral music and have a pleasant experience.

Related Subject Areas	Learning Activities	Resources & Materials
Music 9-12	Orchestra members and director will have discussions relating to the planning of a concert for third and fourth grade students. A. Length of program. B. Selections to be played. Have students design and print a program geared to the reading level of third and fourth grade students. Have students demonstrate the various instruments during the concert. Have selected members of the orchestra, planning a career in music, explain their plans to the audience. Have selected members of the orchestra explain, to the audience, how music is fulfilling their own lives.	

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Concept: The individual is responsible for their career planning.

Developmental Objective: To develop an awareness of the many knowledges necessary in finding a job.

Behavioral Objective: Given a series of activities, the student will be able to apply for a job by doing the following.

self-interest questionnaire, writing the letters requesting applications or interviews, writing a personal data sheet.

The student will understand where to look for the right job leads and understand the interview situation.

Related Subject Areas	Learning Activities	Resources & Materials
Office Practice 9-10	Using a self-written unit, activities consisted of:	Brochures from Ohio Bureau of Employment Services.
	A self-interest questionnaire and explanation of what each segment pertained to.	You, Yourself, Inc. A Unit On How To Find A Job-Richard Robbin.
	A survey (listing) of where to find jobs (newspapers, friends, associates, etc.).	
	How to write a personal data sheet (vita sheet).	
	Conduct during the job interview.	
	A. Possible questions asked.	
	B. What should you ask the interviewer.	
	Follow-up letters regarding interviews.	
	Decision-making on job offers.	
	What does this company have to offer me?	

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Concept: Education and work are interrelated.

Developmental Objective: To develop an awareness of the interrelationship of rational numbers to precision designing and construction.

Behavioral Objective: Using role playing, the student will be able to relate the applications of rational numbers to the careers which require precision and accuracy.

Related Subject Areas	Learning Activities	Resources & Materials
Pre-Algebra 9-10	Display of equipment used in drafting. Bulletin board and table.	Bulletin Board. Drafting Board. Drafting Tools. Table. Math Problems From Industry--Chrysler Corp.
	Student demonstrates the purpose of each instrument used in drafting.	
	Sample designs to illustrate the need for precision tools.	
	Students to make specific references to the knowledge and the need of the knowledge of rational numbers to become a successful draftsman.	
	Fellow students are permitted to handle and examine the variety of drafting tools.	
	Student distributes drawings which he completes for demonstration.	
	A. Machine tool-copied from Math Problems From Industry.	
	B. Original house plan designed by the student.	

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Concept:	Occupations exist for a purpose.
Developmental Objective:	To develop an awareness of how science relates to the production of products and conveniences.
Behavioral Objective:	Given a series of activities, the student will report the quantity and types of rubber and plastic products that are produced locally.

Related Subject Areas	Learning Activities	Resources & Materials
Science 9-10	Give students a general introduction to the rubber and plastics industry.	Books: Careers In Fabricated Plastics.
	Have students list twenty-five rubber and plastic products used daily and their application.	The Story Of The Plastics Industry. Jobs In The Plastics Industry.
	Above list to be used as a determination of how many of these products might be manufactured locally and where.	
	Develop an awareness of the careers involved in the manufacturing of such products.	
	Determine the names of manufacturers in the community that produce plastic products then determine: A. What is produced? B. Number of people employed. C. Names of occupations.	
	Have students collect advertisements and articles relating to the production of rubber and plastic products. Discuss new products: Determine if jobs will be phased out or new ones created.	
	Take a field trip to B.F. Goodrich facility in Avon Lake, OH and observe people in the occupations related to the manufacturing of rubber and plastic products.	B. F. Goodrich Chemical Company.

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Concept: Education and work are interrelated.

Developmental Objective: To develop an awareness that a knowledge of science is important to success in many career fields.

Behavioral Objective: Given a series of activities, the student will be able to list several occupations in science that relate to their career interests.

Related Subject Areas	Learning Activities	Resources & Materials
Science 9-10	Have students list careers in science or careers in which a knowledge of science is important. From the above list, select three careers to be researched and analyzed. Have students make oral reports to the class on one career that they studied. Have students write a report titled "How Careers And Science Are Related." Construct a bulletin board that would display current events materials related to science and career opportunities.	

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Concept:	Individuals differ in their interests, abilities, attitudes, and values.
Developmental Objective:	To develop an awareness that subject matter in the area of science has relevance to the career goals of individual students.
Behavioral Objective:	Given an opportunity to plan learning activities during a grading period, the student will select material for study that would have the greatest relevance to his preparation for work.

Related Subject Areas	Learning Activities	Resources & Materials
Science 9-10	Have students plan and individualize their learning experiences over a grading period.	Textbooks.
	Have students with similar interests work in group situations to discuss their career plans and the relevance of the material being studied.	
	Have various groups or individuals report to the class concerning the relationship of their particular interest to occupations and careers.	D.O.T.
		Reference materials as needed.
	Have the students plan a city. They would role play the various occupations related to science that would be involved in this project, i.e., electricians, plumbers, engineers, archetects, maintenance men, etc. Some would play dual roles by being politicians, planners, commissioners, etc. Each student would assume roles most carefully and closely related to his interests and abilities.	

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Concept: Individuals differ in their interests, abilities, attitudes, and values.

Developmental Objective: To develop an awareness that subject matter in the area of science has relevance to the career goals of individual students.

Behavioral Objective: Given an opportunity to plan learning activities during a grading period, the student will select material for study that would have the greatest relevance to his preparation for work.

Related Subject Areas	Learning Activities	Resources & Materials
Science 9-10	Have students determine what occupations are available in the community, related to his interests and abilities and determine how his interest in science topics is related to such occupations.	
	Have students keep a record of their experiences and a notebook of all materials.	
	Have students evaluate their experiences through discussion.	
	Take a field trip to N.A.S.A Lewis Research Center where students may observe many science related occupations, both professional and technical.	Field trip to NASA Lewis Research Center.

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Concept:	Individuals are responsible for their career planning.
Developmental Objective:	To develop the skills and understanding necessary to apply and interview for a job.
Behavioral Objective:	Given a role playing situation, the student will understand how to apply and interview for a job.

Related Subject Areas	Learning Activities	Resources & Materials
Special Education Secondary	The students will make a list of local industries and the types of employment available to them.	Films--local industry.
	Show films on local industries.	U. S. Steel. Ford Motor Company.
	Have students fill out a sample application form. Check for correctness and accuracy.	
	Make a scrapbook of local industries and the products they make.	Book: Jobs In Your Future.
	Have an outside speaker discuss employment opportunities in the local community.	Resource speaker.
	Simulation. Have students simulate interview situations. Use video tape equipment to record the interviews. Discuss each situation and any mistakes those being interviewed may have made. Make final interview tapes showing the student using improved techniques.	Video equipment.